1874

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WILLIAM WELD, Editor & Proprietor. VOL. X.

LONDON, ONT., DECEMBER, 1874.

§1 Per Annum, Postage Prepaid. Office—Dundas-St., Opp. City Hotel.

NO. 12

#### New Seed-Spring Wheat.

In this Western peninsula of Canada, spring wheat has not been as profitable to farmers for a number of years as the winter varieties. In the northern and eastern parts of Ontario it has been raised with more profit. We have procured and tried every variety we could hear of, and sometimes even tried fall wheats that have been introduced as spring wheat. The results in the last named trials have always been failures. The old China wheat, although tough to thresh, used to yield us remunerative returns, but for many years has been discared, as it only proved a dead loss to those that persistantly attempted to grow it. The time may again arrive when that wheat, with its short thickset bearded head, may come into profitable cultivation. The Siberian superseded it; it lasted but a few years. The Rio-Grand or McCarling or Red River wheats, as they were called, succeeded also for a time; the Club, Morden and Baltic wheats also have nearly run their course; the Scotch Fife or Glasgow wheat, which has had a general cultivation, has shown strong symptoms of degenerating. The mind's eye of the progressive farmer is looking forth for a variety that may again prove profitable. We do not pretend to say but many of the above named varieties are doing a good service in some places particularly in localities where wheat has not been much cultivated. In many old sections, where wheat has been continually cultivated, each of the above varieties is being aban-doned, and so much has been lost by some of them already that many good farmers would not sow either of them if one would give the seed and guarantee\$4 per bushel for The spring wheat that appears to have given most general satisfaction this year, has been the Farrow wheat, a bald, red-chaffed, red

This wheat is now sown to a considerable extent in some parts of Canada, and can be procured at reasonable rates; we have tried this wheat and seen some very good fields of it raised. For general cultivation, where it is known and can be procured, we believe, it will be preferred to any of the other above named varieties.

There will be two new varieties introduced this spring; or at least new to us, and most probably to all our readers; one of these, the Egyptian wheat, a peculiar variety, having very small heads growing from the main head; the wheat is white. We understand its greatest fault is its liability to rust; the other is termed the Redfern wheat. This the other is termed the Redfern wheat. This is the report we hear of the grain from as reliable a source as we could wish. The head is long heavy, and bearded; the grains are short and thick, and rather wide set on the head. This variety was found growing by a person whose name it bears, seven years ago. He carefully sowed the head. He has ago. He carefully sowed the head. He has continued raising it, finding it answered better than any other variety. It has in some instances yielded double the crop the Fife did in the same field; the quality of the flour is unsurpassed. It has been grown on stiff clay and on loamy and black soil; in the last mentioned instance it grew 4½ feet high, and past year from 6,800 to 9,975, and is in-

stood well up without lodging or rusting. The great desideratum in this wheat is claimed, that it is less liable to rust or lodge than any other variety, and in yield of grain and quality of flour is unsurpassed. These are the accounts we have of it; there is, as yet, but a limited quantity in the country.

#### Clawson Wheat.

In some of the United States there has been considerable excitement raised in regard to the Clawson Wheat. The engraving alongside represents one of the heads. It is a white winter wheat; it takes its name from the person who first disseminated it. In some places it is called the Seneca Wheat. Some of the writers in the American papers claim that it yields 25 per cent. more profit than any other winter variety. It is our opinion that it will not be found as profitable as the Scott Wheat. To give our subscribers an opportunity of trying it, we sent out a lot of 4 oz. packages to various parts of the Dominion. Should it prove more

> supply. Our artist is now engraving a head of the Egyptian Spring wheat, which will appear in the next issue. The wheat has a most peculiar head, having several small heads growing from it. Its appearance is most remarkable; very few have ever seen anything like it.

productive than other varieties, we shall be

able to import with

confidence for next fall's

# To Our Subscribers.

The present number closes the volume of We return each the Advocate for 1874. one of you our thanks for your aid in enabling us to make greater preparations

enabling us to make greater preparations for improvement for the incoming year.

We believe we have filled our engagements with you in the past. In regard to next year's paper, we feel confident that you will be better pleased with its appearance. A handsome cover will be placed on each paper, and we trust better matter will fill its pages.

creasing at the present time faster than ever before. The increase of circulation enables us to improve. We hope to have such an agricultural paper in Canada that will be at least equal, if not superior to any agricul-tural paper printed on the Globe. We now tural paper printed on the Globe. We now ask your aid to accomplish the undertaking. We have brought before your notice such things and plans as we have thought advantageous to you; we have exposed and condemned such things and acts as we have deemed of injury to you. We purpose keeping true to our standard—the Farmers' Advocate—and ask your aid in upholding it.

Our Chromo - The Little Wanderer.

When we were in England, we examined a great many pictures, with a view of making a present to such of our subscribers as aided in extending our circulation. We selected a fine steel engraving, but on our re-



turn we found on this continent a chromo lithograph of a portion of the same subject, but over twice its size, and so beautifully finished, that, notwithstanding its price, we determined that each one of our subscribers should have a chance to obtain it. The accompanying engraving gives but a very faint idea of the chromo. It merely shows what figures are in it, but, of course, we cannot the state of the chromotopy of attempt, with an engraving, to give any idea of the beautiful coloring and finish. The subject is a good one, pleasing to old and young, and can offend no one. We give the chromo to each one of you that will send in one new subscriber, accompanied with the \$1.00. The size of frame that should be used for it is 20x16 inches, to allow for a proper margin of white at the sides, which should in all cases be shown. We guarantee every one satisfaction that procures one of them. 1875 on page 190.

#### Agents Wanted.

We wish to procure a really good active agent in nearly every County in Canada, to obtain subscribers for the ADVOCATE. We want such agents as have the a ility to lay the merits of the paper before the farmers, and show the advantages of taking it.

We will either pay a salary or allow a very larg commission to those "who show them-telves capable. Good men may rely upon steady employment. To those farmers, or farmers sons, who wish nice work for the winter, there is a good opportunity. Old subscribers or their sons will receive the first chance; send for specimen copies and terms to agents. specimen copies and terms to agents

#### Colorado Potatoes.

Although the Colorado potato bug has been so destructive to the crop with us, it has done but little damage in Colorado. It is generally admitted that the bugs were first discovered there in the low and flat lands, but the high lands are, and have been entirely free from their ravages, and the potato is the leading crop raised there. One farmer near Denver, this year raised 30,000 bushels. We notice this in one of our exchanges. hanges.

#### Prize Essay. A prize will be given for the best essay on

Soiling Stock in Canada.

Essay to be in this office by the let. of anuary.
The Prize Essay - Fence or no Fence-will ppear in next issue.

#### Handling Butter in the Irish Fashion.

The following extract is from a letter received by Mr. Richards, of the firm of Richards & Gooch, Chicago, Ill., from his partner who is now in Europe, and gives an interesting account of the manner in which butter is han-

g now in Europe, and gives an interesting account of the minner in which butter is handled in Ireland:

I visited Cork and saw the most systematic method of handling butter I have ever seen. They handled from 1,500 to 3,000 firkin per day. All butter is taken to the butter market for inspection, before going to the party's store to whom it is consigned. This market is a large stone building—large as our Board of Trade—but only one story high. It is divided off in five sections, A, B, C, D, and E. These sections are filled with butter as it comes from the depots. There are five inspectors, sworn by the company to perform their work faithfully. They ballot every morning to see which section they are to inspect, so they never know which butter is to be looked at by them. I inquired of several merchants whether they ever had any difficulties with inspecting butter in this way, and they informed me they did not. I think it is the best system in the world. The market is cleared up every day. I find our medium grade of Western sound butter would inspect about fourths.

One of the Russian papers has a correspondence descriptive of a queer element of our Western population. They are Russians who were sent to Siberia as convicts, but one satisfaction that procures one of them.
One of the best artists in Canada says the picture is worth \$2.00. See prospectus for as herdsmen on the plains.

# Our Implement Manufacturers.

Canada has been a good field for the enterprising manufacturer to develop his abilities in. The great demand for laborsaving implements has made it necessary for every farmer worthy of the name to expend many hundreds of dollars in good implements. Numbers have spent thousands; thus immense sums are annually expended. Our manufacturers are keen, shrewd men; some of them go to the continent of Europe to examine and find out any new improvement that can be made on any new implement. Others go to the States annually for the same purpose. If the least improve-ment can be found, it is eagerly sought after and adopted here.

Each one strives to be the first to introduce any improvement, as it gives them a decided advantage in effecting sales. Sometimes old plans are adopted, on purpose to make a change to talk about, or to create a little excitement. In attending exhibitions, we have observed that nearly every implement exhibited has some special improve-ment or alteration to draw attention.

None can deny that the construction of our implements is as good as can be pro-cured in any part of the world, and far better adapted to our use than most of the implements made in Europe. In fact, the Dominion implements have now obtained such a name that instead of the necessity of our importing from Europe, our machin-ery is finding a market there, and some has also been sent to Australia.

It is to be regretted that one manufacturer in particular, who, having gained some Provincial prizes on an important implement, manufactured a large number. Aided by the first prize ticket, he disposed of his wares, but either from desisting in putting in a proper metal, or employing efficient workmanship, many farmers found they had a useless implement in the time of need.— We ought, perhaps, to mention the name, but the law is such that if we were to do so, we might be dragged into a lawsuit for libel.

A great desideratum in some of our machinery is greater durability. Our best manufacturers are turning their attention to this to a greater extent every year. latest improvement we have heard of in this particular has been a novel process of mixing metals. An American discovered a way of melting steel, wrought iron and pig iron together, a process that was not known. course he patents his knowledge. likely in Canada, and we hear that one of our leading manufacturers has, at a great expense, purchased this right, and is now beginning to use this amalgam metal, which is claimed to be superior to steel, wrought iron, or the best cast iron, for many pur-If this metal proves half as good as represented, it will give to the manufacturers a decided advantage. We have not yet seen it, nor have we seen the inventor.

This patent business tends to make the large shops more numerous, and the small ones fewer, as a small manufacturer cannot cope with the larger ones in paying great prices for testing new implements or new

## The Cockle Burr.

Of large weeds, this is one of the most generally met with in the neighborhood. Like others, the old proverb is to it very applicable: "One years seeding, ten years weeding." Along fences and by the road side we meet it every day, and its means for scattering its seed abroad are continually extending the evil. The ripe burs adhere to whatever they touch with their pricklers, cattle bringing them clinging to their hair; but the wool of sheep is still more liable to be the means of disseminating them than any thing else. We often bring them adhering to our trowsers, after a walk by the wayside or in neglected fields, and brushing them off, we leave the seed to grow where weeds the following season. Professor Bissey writes of them as follows in the Western Farm Journal, in reply to a correspondent sending him some of the seed with other seed for identification:

Of the first one, the sender says "it is a new comer, is very troublesome incorn fields and gardens, does not trouble small grain, and is a great nuisance with sheep raisers. The specimen, upon its arrival, proved to be the cockle-burr, (Xanthium strumorium, var.

soil, has broad leaves, and produces an oblong "fruit," or burr, (an inch or more in length), which is covered with stout hooked prickles. Inside of each burr are generally two seeds lying side by side and running its whole length. As this plant is quite apt to be found in the waste places of the farm, and by the road-side, it is almost useless to fight only in the cultivated fields. It must be attacked everywhere. The "boy" must be sent with hoe not only in the corn field, but also into the road bordering the farm, and into the timber lot where the miserable things grow. Too often our farmers and gardeners make the great mistake of thinking that clean culture of that part of the farm which is in corn, wheat, oats, or other like crop, is all that is necessary, while the timber lot, the fence rows, and the road side are all allowed to grow up with the vilest of weeds. Let it be remembered that the seeds of plants have locomotive powers, which in many cases have carried the species from one continent to the other, across the broad ocean, through a space of perhaps ten thousand miles. It is folly to attempt to keep the inside of a garden or field clean if weeds are allowed to grow up all around the borders.

#### Increased Value of Land in England.

The Mark Lane Express, in a late number, refers to the general complaint of the value of land continually increasing, while the quality of its cereal produce is, by the repeal the duties, below its just proportion. The causes to which this is assigned are the increase of population; the increase of capital; the improvement in agriculture, and the employment of machinery. The improvement in agriculture only can account or the fact that English farmers can pay high rents and taxes, and spend such large amounts in farm improvements, while the price of grain is so much lower than it was some years since. The superior quality of stock on the farms of Britain and the cost of high farming prove that high farming is The judicious investment of capital in farming is almost certain to bring in large profits. So well is this understood that a good farm can hardly be got to rent or purchase, in consequence of the great competition, and the sons of farmers are in many instances forced to pursue some other occupation than that of their fathers. It is said that it requires as much interest to get a farm as a Government appointment. Of the consequence of the increase of population and the improved farming, the Express says:

"It is evident, too, that this increase in population and in the value of land is accompanied with an increase in the value of the produce, especially animal food, which is not so readily obtainable from abroad as cereals. In 1821 good rounds of beef could be purchased in Whitchapel Market at 4d. per lb., which could not now be had for less than double the money. And this enhanced value of the product is, of course, another consequence of the increased value of the land, and a powerful stimulant in the advancement of rent; so that everything connected with landed property tends to increase its value, and that value gives no

"Then, the increased and increasing wealth of the United Kingdom is patent to everyone who knows anything of commercial affairs; and this is not confined to trade and commerce only. The agricultural classes have in many instances accumulated wealth by high farming, and having discovered the grand secret of farming—namely, that the more money expended judiciously upon the land, the larger will be the produce, and consequently the return. Thus, the limited quantity—in fact, scarcity—of land at all times in the market, whether to purchase or to hire, encourages competition, which is largely increased by the increase of wealth in the country. It is in the natural course of things that when a person-whether tradesman or otherwise—finds himself in the possession of a surplus of capital, which he does not wish to employ in trade or commerce, he looks out for land to be disposed of, which he purchases, less for the rent it will bring than as a safe investment, besides giving him a standing in society that no other kind or outlay can procure. The desire of possessing a portion of, or something connected with the land, is a principle inherent in mankind; and we see it displayed cohinatum.) It grows usually in most rich by all classes in society, from the poor

weaver who cherishes a few plants in his

window to the owner of thousands of acres. "Science has intervened to a great extent in the cultivation of the land, and indeed, by the increase of wealth, bids fair to produce a complete revolution in agriculture, with the help of machinery, which is already introduced upon the farm to an extent which supersedes manual labor to a large amount and is still daily advancing. Those who can look back fifty or sixty years will be able to judge how far the capital acquired in agreulture has been accumulating during that period, when one of our best agricul turists had purchased and used a drilling machine, for which he paid 191.; but he fore saw that the expense was too great to admit of its being generally purchased or adopted!

"Thus we see that while the influx of population has largely increased, if not doubled, the value of land has acquired a corresponding advance, as the same causes have produced appliances in the way of machinery and so forth to an extent little contemplated by any former generations of farmers. Despite, in fact, low prices for produce, an impetus has been given to agriculture which must still advance, until England becomes a vast garden conducted on scientific principles, and with improvements extending on every side."

#### Remarkable Cases at the Last Assizes.

A farmer received serious injuries at a railroad accident near Komoka. The jury awarded him \$8,000 damages. Another person was awarded \$4,000. We are under the impression that jurors make the R. R. Co's pay too much when accidents occur to passengers; men are liable to accidents quite as much when travelling in their own con-

The destruction of life or property at railway crossings, when men act with due care, should be smartly paid for by the But a mere accidental occurcompany. rence should be treated differently. We should ask for justice and should act justly towards the parties who invest their money in our country.

Another case was tried that from the novel mode of arriving at a decision, must be interesting. Plaintiff sued for recovery of a sum of between 400 and 500 dollars. The judge charging the jury instructed them to return answers to certain questions. their answering these questions, he declared the verdict for the defendant. The jurymen arose and said: "We agree that plaintiff should have the money sued for." But the judge ruled adversely, according to law, which empowers him to have certain questions answered by the jury, on which answers he was to decide the verdict. This is the first case we have noticed where the jury agrees on one point and the judge rules oppositely.

A person was placed in the Asylum in London to prevent him from interfering in an election. He escaped twice from the an election. He prosecuted the parties who Asylum. caused his detention, and received one shilling damages.

## Blight in Fruit Trees.

The cause of the blight that has been so disastrous to many trees during the past season, we attribute to the lack of moisture. Pear trees blight more than apple trees because they emit more moisture from the leaves; some varieties blight worse than others from the above cause.

The best preventative is to plant such varieties as are least liable to blight; secondly, dig or plow the ground, and keep clean .-Underdrain the land. Excessive moisture prevents a proper growth of the roots.— Trees on clay soil are less liable to blight than trees planted on sandy soils.

# The Little Giant Threshing Machine.

We understand that great improvements have been made in the construction of this implement. We are pleased to hear it, as there is a growing necessity among many good farmers to have a threshing machine for their own work, as they would thus be enabled to keep their farms cleaner, and have fresh threshed straw for their stock, and could thresh just when they choose.

Mr Sharman, the manufacturer, is sending them to all parts of Canada. For per-ticulars we would refer you to his advertisement in the November number.

#### Insurance on Sheep.

Farmers are continually losing sheep by They come to the township councils and claim damages for their loss. If they met with a loss from fire the Insurance Co. would not pay the claim if the farmer had neglected proper precautions.

Dec., 1874.

It is our opinion that not one quarter of the sheep would be killed by dogs if proper precautions were taken, that is, of attaching a bell to one sheep in a flock of fifty or under, and two bells if over that number are kept in a flock. Would it not be well to compel farmers to take the necessary precaution, or to make them run their own risk and loss if they neglect it. Let us hear from some of you in regard to this suggestion.

#### Prize Essay.

RAISING SHEEP

We offered a prize at the North Middlesex Exhibition for the best essay on agriculturre. We give the present part of it, we may give more in a future number.

Although sheep can make a living on poorer pasture than other animals, yet they thrive better and are more profitable when kept on good rich pasture. A high and dry situation is more suitable for them than a low or damp one, let it be ever so rich. They should have excess to water at all seasons of the year. In winter they should be provided with a comfortable shed, open to the South, and a yard or field to exercise themselves in, as they cannot bear confinement well.

Feeding racks and troughs should be provided, and the racks should be so arranged that the hay seed &c., will not fall upon their wool and injure it.

Their food should consist of good clover or timothy hay and pea straw, and they will thrive on the latter even though not very

well threshed. Oat and barley straw may be given occa-

nionally for a change.

A mixture of oats and peas should be given daily; from one half to a bushel per day for 40 sheep makes, a fair allowance. Roots should be given daily, especially towards spring, but should be fed sparingly to breeding ewes, unless they are well fed and sheltered, as weak lambs often follow heavy feeding of roots where insufficient shelter is provided: but after the lambs are dropped, they should be fed freely, as it induces an abundant flow of milk. Before going to grass in spring the tag locks should be carefully removed, it saves considerable work and often saves the animal a great deal of incon-

venience. Sheds should be provided with a number of box stalls, which can be used as hospitals to confine any weak or sickly one in. A ring in the ear, with the owner's name and the number of the sheep, should always be used, as they often prevent the sheep from being claimed by persons who are not the owners; and by the aid of the rings an account can easily be kept with each sheep, and if any one is found to produce weak lambs, poor fleece &c., it should at once be marked for sale; and those which are found to be most profitable can have their good qualities credited to them and treated

accordingly.

By following out this method; by selling the inferior and keeping only the best, always using a good ram and feeding and caring for the flock properly, they may be wonderfully improved in a few years with but very

little additional expense.

Shearing should be done as soon as the weather will admit, and should be well done; as it adds great to the appearance of the sheep. Each fleece should be carefully weighed and the proper weight credited to each sheep, and those which give the lightest weight should be fattened for the butcher as soon as possible. The weight of fleece can thus be increased in a short time, and the profit will increase in proportion; and the profit on a flock giving six pounds of wool may be double that of a flock giving only four, as in all animals it takes a certain return to pay expenses, and only what goes beyond

that can be called clear gain.

About shearing time, lambs should be examined, and they will often be found covered with ticks; these should be destroyed at once. Miller's preparation will destroy them in a short time, and at but little expense.

Any animal suspected during the year should be examined, and means taken to effect a cure as soon as possible.

ring the lambing sher be cold or wet, th ully watched, and any tended to at once. key has a good effec ping spirits. Anoth t, until they get revived, and then rub This method v are taken while the They should be ke ale time after this es them feel the colo es of the Gard

GRICULTURAL EXHII the four great Agric in Ontario this a ded large sums as agement of agricu wore awarded in Dominion. The he Dominion. The e prizes may be clas m Crops, Horticul-icultural Implement luctive of good resu general agricultural ay, however, be re portion of the a view to the imp than in giving priz or beets, and a b A liberal end eders of improved s

crops of a superior dozen or so of roo exhibition of a bus in, by picking out of sand seeds of week ture of a crop or a Such prizes as are a itain and Ireland fo sful culture of a fie for the best cultiva ribed district, do m ent of the improv an any number o nall quantities of fa e farms so cultiva izes are examples of t the whole distric proved agriculture d also to many wh port of the judges ccessful application orthy of honorable port of the judges nine the farms of orted in the journ artly occupied wit re topics of no litt ultural papers of A In another colum he official reports arms of members ural Society, Scot do not expect our low in all respec farming of the abut the success stimulate us to and let us bear by gradual and slo tain ascended to t in agriculture that

> Already have son taught us b through which we cess in raising goo good farming, to ity of the crops America is mainly wheat to the acre cording to the U the average yield computed at 2911 Mr. J. B. Lawes thus points out well:-The Eng Obviously the se the production favorable condi favorable condi much reduced, It may be judge and heavier soil very large; but known proport siderably reduc and very light

GOO

1874.

ring the lambing season, should the her be cold or wet, the flock should be ully watched, and any weak lambs should tended to at once. A small dose of key has a good effect in reviving their ping spirits. Another method is, to them in warm water all except the sheep by ip councils
If they t, until they get comfortably warm revived, and then rubbing them dry with rance Co.

This method will seldom fail if armer had are taken while theyshow any signs of
They should be kept warm for a conale time after this warm bath, as it quarter of if proper attaching s them feel the cold very severely. y or under, es of the Garden and Farm. to compel

GRICULTURAL EXHIBITIONS -- PRIZES.

the four great Agricultural Exhibitions

in Ontario this autumn, there were rded large sums as prizes for the enagement of agriculturists. Similar swere awarded in the other provinces he Dominion. The heads under which e prizes may be classified are Live Stock, or Grons Horticultural Products and

m Crops, Horticultural Products and icultural Implements—all, doubtless, luctive of good results, and promoting

general agricultural weal of the country.

ay, however, be reasonably questioned

portion of the money so expended not be more judiciously awarded

a view to the improvement of agricul-

than in giving prizes for a bunch of car-or beets, and a bushel of potatoes or

eders of improved stock and the growers

crops of a superior quality. What is ly needed is not the growing or selecting

a dozen or so of roots, or the preparing exhibition of a bushel or five bushels of

in, by picking out of it the inferior kers and seeds of weeds, but it is the best

ture of a crop or a farm, as a whole.
Such prizes as are annually given in Great
itain and Ireland for the good and sucsful culture of a field of turnips or grain,

re topics of no little interest in the agri-ultural papers of America.

In another column we give extracts from

the official reports of the judges of the prize arms of members of the Banfishire Agricul-

ural Society, Scotland, this autumn. We

do not expect our Canadian farmers can fol-

low in all respects the example of high farming of the agriculturists of Britain; but the success attained to these should

stimulate us to incessant improvements,

and let us bear in mind that it is only

by gradual and slow advancement that Bri

in agriculture that she now occupies.

tain ascended to that pre-eminent position

GOOD FARMING.

through which we have just passed. If suc-

through which we have just passed. If success in raising good crops is to be attained by good farming, to this the general superiority of the crops in England to those in America is mainly due. While 13 bushels of wheat to the acre is about the average, according to the U.S. Agricultural reports, the average yield in England this year is

the average yield in England this year is computed at 29½ bushels at 61 lbs. per bushel. Mr. J. B. Lawes, in the Times, incidentally

the production of enormous crops under favorable conditions, whereas under unfavorable conditions the produce has been much reduced, or even below the average. It may be judged, that on the well-cultivated and heavier sails the yield will be generally

A liberal encouragement of the

caution, or and loss if m some of

h Middleon agricult of it, we living on

s, yet they able when gh and dry em than a ater at all hey should shed, open to exercise ear confine-

so arranged t fall upon od clover or nd they will h not very

ould be pro-

given occashould be shel per day nce. Roots lly towards y to breeding d sheltered

y feeding of is provided; pped, they es an abung to grass in carefully rerk and often al of inconh a number

l as hospitals one in. A 's name and d always be sheep from are not the rings an aceach sheep. oduce weak ould at once e which are and treated

d; by selling e best, always nd caring for e wonderfully th but very soon as the be well done;

arance of the be carefully t credited to we the lightest the butcher as of fleece can time, and the tion; and the unds of wool giving only certain return t goes beyond

should be exfound covered troyed at once. roy them in a pense. ring the year

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be concluded that even heavy soils, if badly farmed, will generally yield only, or under, an

The Telegraph, at St John's N. B., in an interesting description of that province, gives full details of the quarries and plaster mills in Hillsborough. In Nova Scotia and New Brunswick are the only known deposits of gypsum spitable for calcining on the Atlantic gypsum suitable for calcining on the Atlantic coast. In Virginia, and New York are tound small formations of brown, earthy gypsum without marked value in itself, and so remote in the interior that even with an additional charge of two or three dollars per ton, provincial plaster would be the cheap-est. These were shipped from Nova Scotia to the American Atlantic Seaboard, manu-factured in 1870 about 148,000 tons of rock plaster, valued at \$148,000. This rock plasture when manufactured, possessed a value at least of \$900,000. The mills at Hilslborough are actually employed in its manufacture, but its financial prosperity is impover-ished by the duty levied on it, when manu-factured in the United States, where the

principal market is. TWO CROPS OF POTATOES IM ONE YEAR. The Orillia Packet states, that A. Mc Donald, The Oruma Packetstates, that A. Mc Donald, of that town, showed the first new potatoes latter part of June, 45 days after planting. On the first of July he planted Early Rose potatoes in the place of those raised, and has had a second crop of good fine potatoes.

LARGE BRAHMA COCK.

An English poultry breeder is informed, that a Brahma cock is on Exhibition the present season in that country, which weighs over twenty pounds. One party claims for him the enormous weight of twentytwo pounds.

SWINE STATISTICS. The following table shows the number of wine of all ages in the States named, as reported by the Department of Agriculture at Washington.

а	f I I reland for the good and suc-	Washing our		1000	. 1
	itain and Ireland for the good and suc-	States.	1874.	1873.	ľ
ä	sful culture of a field of turnips or grain,	Statucis.	1 420 900	1,596,600	1
蠡	for the best cultivated farm within a pre-	Tennessee	224,000	351,600	
20	in 1 liming do more for the encourage	West Virginia	304,000	2,173,700	1
223	t the improvement of agriculture	II andmolest	2,008,000	2,175,700	1
531	- manufact of Drizes awarded for	Ohio	2,017,400	2,227,000	1
ă	an any number of farm or garden produce.	Michigan	510,800	513,500	١
8	hall quantities of farm of saturation and the merit, these	Michigan	2,496,700	2,713,900	١
38	ne farms so cultivated as to merit these	Indiana	0 100 500	3,706,300	١
g	izes are examples of good farming through-	Illinois	010 000	658,400	١
œ	La la district and are incomité o	Wisconsin	201 200	209,600	
33 <b>8</b>	I on length to all will bee money	Minnesota	201,200	3,847,700	
			3,093,700	0,047,700	١
			2,000,000	2,656,500	
d	ccessful application that have been deemed	Kansas	484,600	457,200	١
H	orthy of honorable record and prizes. The	Nebraska	128,500	121,300	
ä	orthy of honorable record and prison who ex-	Nebraska	140 000	427,300	1
3	port of the judges and of others who ex-	California	171 000	163,300	)
			00 547 400	21,783,760	
	I I The journals blist all whom you	10191	1 200, 347, 400	21,100,100	
3		Dogresse	. 1,230,300		
	hay be seen in the ADVOCATE of November	Prairie Farmer.			
	may be seen in the little interest in the agri	Torres cattle	e disease st	ill exists a	t

The Texas cattle disease still exists at Stafford Springs, Conn. One yoke of oxen, belonging to the Westmore Lumber Company, have been slaughtered by Professor Cressy, of the Massachusetts Agricultural Cressy, or the Massachuseus Agricultural College, and ex-Governor Hyde who have gone to make an examination. The state Com-missioners have examined two of the suspectmissioners have examined two of the Suspected head of beef cattle belonging to the Dimock edhead of beef cattle belonging to the Dimock and propunced, them healthy. Brothers, and pronounce The remainder of the herd will be butchered under the direct supervision of Commissioner Hyde. The ease with which the disease is communicated is illustrated by the fact that one herd was infected by a yoke of oxen used to switch off a car containing some dis-Already have we spoken of, the lesson taught us by the season of drought eased animals.—Ex.

OUR EXPORTS OF ANIMALS.

The drain of animals from Canada into the United States has been very large of late years. If fact, the Eastern States depend to a very considerable extent upon the Province of Ontario for their supply of ani-

Since Confederation took place, the value of our exports coming under the head of "Animas and their Products" has more than doubled. This will be seen at a glance by thus points out the advantage of farming well:—The English wheat crop of 1874.—Obviously the season has been adapted for reference to the returns, which are as fol-

ws:-			Value of exports.
Year.			&6 803 167
1868			\$6,893,167
1079			
	. 1 .	- macanoggio	n in this departme

the result of a deficiency of rain. And it may greater than those classed as agricultural products, such as wheat, barley, and other grains. There is very little difference now, and that is likely soon to disappear as our own new lands begin to deteriorate for grainraising. The number of animals exported from all parts of the Dominion during 1873;

as as follows:		
	Number.	Value.
Horses	8,782	\$922,233
Cattle	25,638	655,594 84,531
Swine	5,355	957,721
Sheep	315,832	88,942
m	indicate quit	e an exodus
to all heat	thore annears	TO DE HO POME
and if the pr	oposed Recipr	ocity Treaty b

comes law, the drain will doubtless become still greater. During 1873, we also purchased a considerable number of animals from the United States. The returns are as follows: \$92,808 Horses . . . . . 1,359
Cattle . . . . . 2,757
Swipe 5 255 70,491

Swine........5,355 Sheep...... 5,770 Other Animals...... 16,134 3,753 These imports are not large, but they are larger than we supposed they would be.

84,531

INCREASING TRADE IN FRUIT. On Saturday last some seven cars were loaded with apples at this station alone, and on Monday and Tuesday there must have been fully as many each day. The total export of apples from Galt this season will reach 2,500 barrels. Mr. Bourcher alone shipped 1,500 barrels. These figures show that the trade in this fruit is larger in this section of the country.

P. E. ISLAND PROSPEROUS.

According to our private advice from P. E. Island, the province never was in a more prosperous condition than it is at present. Though a wet spring made cropping late, the hearvest is one of the best secured for many years, and the weather for saving it has been most propitious. Even ungrateful man could desire nothing better. The wheat crop is better than it has been for many years; it is believed that the yield will be deviled that the yield will be double that of any season since the midge made its appearance. As a consequence, it is understood that the import of flour into the Island next year will be reduced by at lease twenty-five or thirty thousand barrels. Barley and oats are also an average, if no more. Turnips and potatoes, too, are excellent. The mackeral fishing is fully double that of any former year. To cure the enormous catch, barrels had to be imported from Nova Scotia and the United States Shipbuilding has been prosecuted with vigor, and we trust will prove remunerative. Trade generally is not counted very brisk, and yet it may be good, if we judge from the large increase in the revenue. The Islanders have abundant cause to be thankful and we are sure they never werein a better position to face the coming winter.—St John Telegraph.

Mr. Henlock Young, of Guelph township, has given the Guelph Mercury two apples which are a curiosity. In one of them a which are a curiosity. In one of them a blossom grew right from the hollow near the stalk, and was well formed when the apple was plucked. The other contains near the was plucked. The other contains near the stalk an excresence like a small apple, and from that also grew a blossom, which came out into full flower. Both apples were full formed. This freak of nature is, to say the least, curious.

"Sharp Practice." — Under this heading a correspondent of the Country Gentleman describes several tricks usual in buying hops. One of these is for a buyer to purchase the crop of an old grower, nomin purchase the crop of an old grower, nominally at a price several cents under the real market price, but with a "gift" of money enough to make the full price—the bill of sale showing the low price. With this bill of sale the buyer induces other growers to sell at the price named in it. On learning of the trick from the first seller, one of the of the trick from the first seller, one of the ones deceived by it says that "he would like to kick that agent." This is a very like to kick that agent." natural feeling, but we cannot see why it should be directed against the buyer alone. and heavier soils the yield will be generally very large; but that on a certain but unknown proportion of these it will be considerably reduced by "blight." On gravel and very light lands a deficient crop will be and very light lands a deficient crop will be

# Correspondence.

BROWNELL'S BEAUTY POTATO.

SIR,-As you wished to know last spring, when advertising the above named potato, what the result would be from different sections of the country, I give you the follow-

I received from you half a pound; it had twenty eyes. I made twenty sets, put them in a moderately rich loamy soil. They had the appearance of the Early Rose for rapid growth and early maturity, but for length and strength of stocks they resembled the Garnet Chillis. When dug there were one hundred and sixty-eight; three or four of the largest weighed almost a pound each. The yield was decidedly beyond anything I have had in the past and anything heard of in this section. My wife cooked a few for the table, and we found them quite satisfactory. The Japan Peas you sent never came up.

The Japan Peas you sent never came up. J. ROADHOUSE.

Bear Brook, Oct. 31, 1874.

From British Columbia.

NEW SEED WHEAT.

SIR,—With this mail I send to you a small quantity of spring wheat, raised here this year; also, a small quantity of fall wheat.— The weather here is very cool in summer, compared with that of Canada, the hottest day this summer being 85 in the shade; the weather is very mild now. We have had one light frost, not hard enough to freeze balsam flowers.

THOS. HENDERSON.

New Westminster, B. C.

[Our British Columbia correspondent will accept our thanks for the information he sends, and also for the grain. The samples sent are much finer than the grain grown by us; the heads are large and well filled. In one of the heads we find the wheat is set four grains in a row, the majority being three; our grains generally go about two, and sometimes three. We have placed the wheat in the hands of the following gentlemen, who have kindly consented to test it men, who have kindly consented to test it for us and report concerning it:—Major Bruce, London Township; W. Blyn and G. Jarvis, Westminster. Thus it will be tried on different kinds of soils. We shall be pleased to hear more accounts from British Columbia correspondents in record to that Columbia correspondents in regard to that country.—ED.]

THE FARMER AND THE RAILWAY.

SIR,—As Mr. Sutherland was driving a span of horses across the G. W. R. R. track on Saturday evening last, the engine struck the horses and wagon, killing the horses and smashing the wagon to atoms; the driver was thrown 65 feet from the spot, and most probably will die. Mr. S. was a steady, sober man, and took as much precaution as any other person would.

Now, sir, I wish you to publish this, as you claim to be the farmers' advocate, and I want to know if we are to be killed on our own grounds without any just reason.

I have met with many narrow escapes from crossing railroads, and still fear mishaps. think I ought to have a right to travel the Queen's highway without being in danger of losing my life.

I hope you may bring this before the public in such a way as to give us greater

C. R., Dorchester.

We are well aware that farmers' lives are often endangered by the railroad, and be-lieve that not one-tenth of the loss of life is made known beyond the locality where it The subject is of importance, and should be discussed at the farmers' meetings. Even the Patrons of Husbandry might properly debate on this subject. We presume the question would result in greater for farmers, at the expense of a protection for farmers, at the expense of a higher charge for passengers, as it is the rapid passenger trains that send the farmers to their long home. We, as farmers, have a right to the highway. The railway is an intruder on our rights; it is their duty to give us safe crossings. Guards or gates should be kept at every dangerous place. In England the crossings are by means of bridges.
In France the protection from danger is effected by guards at each crossing.—ED.]

#### AGRICULTURAL EXHIBITIONS.

feel a very great interest in the welfare of the ADVOCATE, and would like to send you a few lines from the eastern outskirts of our province; but I feel something like the old Scotch woman that went along with the regiment to fight, broom-stick in hand-"not that I can do ony gude, but to let ye ken what side I'm on.

I want in the first place to corroborate the statement of J. W. Smith, regarding the crops around Ottawa. It is a very fair and correct account. Crops are by no means a failure, although the weather has been extremely dry.

I also want to say something about Township Societies, and I am pleased with the side you take in the matter. We have kept up a Society in this township for several years with spirit and success, although we get but little aid from Government, and I can safely say that our annual Exhibition would be no disgrace to any township in Ontario, and these, I think, do equally as much good, if not more, than the larger so-cieties. There is one thing that I would like to get some information on—whether it would be best to give up judging field crops altogether, and have samples brought to the Exhibition instead? Some think it would, as there is so much expense and dissatisfaction in sending judges around. Perhaps you or some of your readers could give some information on this point.

We expect to have a great time down here next fall at the Provincial Exhibition. hope you will pay us a visit, but I don't know how we will find you out in the crowd. Could you not wear some kind of a badge, and let us know through the ADVOCATE.
R. A. Roe, Clarence.

[In regard to the examination of growing crops, we hope some of our readers may take up the subject and send in an article against the practice. We wish to have such subjects discussed. The plan is not followed in this vicinity. Our opinion is that it is a good plan, but judges should be selected who would look on their task as an honor, and who would not require more than the expenses of a vehicle to take them to the different places, and their dinners. We-hope and believe you will have a good Exhibition at Ottawa next year. If all is well we in-tend being there. Perhaps we may wear a fool's cap or some other conspicuous mark, such as having one leg of our pants or half of our coat of a different pattern than the other. Perhaps you may see us too soon, too often and too long.—ED].

#### INQUIRY.

SIR,-I have a valuable horse which has a lump growing on its side. I think it is a burst. If you or some of your correspondents would please give some remedy through the columns of your paper, I would be very much obliged. I suppose the sooner it is remedied the better.

A Subscriber, Lancaster, Ont.

[Cannot say without examination or fuller description what the lump may be. Most probably it is a rupture; in that case it should be operated on surgically, and a skilled person should be employed, othermay lose the animal. Veterinary Surgeon, London].

SIR, - Please inform me through your paper if a thorough-bred Berkshire pig entirely black.

D. B., Richmond Hill.

[The old Berkshire hog was a mixed-colored We have never yet seen an imported Berkshire without white hairs. -ED.

BEST AND CHEAPEST FENCE. Sir, -

The following plan in my view, is the bes as well as the cheapest. Cedar posts eight feet long; should cedar not be convenient, take long; should cedar not be convenient, take split oak about five inches in diameter, the part which go.s into the ground should be either burned or dipped in coal tar, which can be had at the gas works for a trifle. Posts should be set six feet apart, and three feet deep Then take the team and plow, and start with a light furrow eighteen inches from the post on each side, then a second furrow good and deep. Then with a shovel throw up to the posts, which when done, will form a nice round ridge; the posts will now be nearly three feet and a half in the ground, when ridged up in this manner its making it awkard for horses or cattle to jump over. Now the for horses or cattle to jump over. Now the posts are in, we will take No. 9 wire fasten to

the post with small staples, and as a general thing almost every handy farmer has few blacksmith tools about him and can make the staples himself out of a rod. Put on four wires, the first about four inches from the ground, second six inches, third ten inches, fourth fifteen inches, the fifth to be a 2 by 4 scantling spiked on top of the posts. A set of spring wire to be put in about every 25 rods, to allow the wire to contract in winter and expand in sum-mer. Now we have a fence that does not require to be repaired after every little breeze of ind; also one that harbors no snow drifts. Neither horses or cattle can throw it down. In the first place it costs less to build this kind of fence than any other; second place much less to keep in repair. We will now sum the cost of material required; say 25 rods sum the cost of material required; say 25 rods will take 66 posts, at 9 cents a piece would be \$5.94; No. 9 wire \$5.0°, 264 feet of 2 by 4 hemlock scantling at \$8.00 per thousand would be \$2.11 one set springs 40 cents; staples (if bought ready made) and spikes, \$3.00; coal tar, \$1.00. The cost of making holes setting in posts and putting on wire will be about \$5.00. The whole cost of 25 rods comes to \$22.45 We will sum up the cost of the same number of rods of rail fence, the timber it takes to make rails for 25 rods is timber it takes to make rails for 25 ro worth about \$33.00 the splitting is worth \$3.00 more; if staked and capped there will be other \$3.00 in all, \$39.00; and say nothing about making blocks, hauling the rails and putting thme up, a nice little sum of \$16.55 in favor of wire fance. of wire fence. D. J. THOMAS,

#### What Shall be Our Grain Crop in the Coming Year?

Even now, in the early winter, it is well to look forward to the spring labor, and the crops of autumn. He who looks before him, is pretty sure to be forehanded with his labor. The provident farmer has mapped in his mind, every field in his grounds, with the quality of its soil, natural and improved, and has designed the crop for every part of his farm. He knews that there is a necessity for a variation of crops, and that the soil after a time becomes wheat-sick, or po-tato-sick or even clover-sick; we use the term sickness of the soil, as one not unfrequently used, and as expressing very plainly what those conversant with the soil know, sometimes too well. He learns that his turnips do not yield as heavy a crop as they did some years ago; and as a remedy for light yield of root crops he sows less turnips, and cultivates mangolds or beets instead. his grain crops also he finds it profitable betimes to make a change.

There is, besides, something more than the knowledge of agriculture, necessary in order that the cultivation of the soil may be fairly remunerative. A judicious political economy of the Legislature is necessary to the prosperity of the nation, and in like manner must we farmers pursue a wise financial policy. Our fields may produce abundant crops, but if we cannot dispose of our surplus produce at a fair paying price, what will the fertility of our soil profit us? Of this the farmers in the Western States have had ample proof when corn only brought them in a return of twenty cents per bushel.

With us Canadian farmers, wheat has always been the staple product. We have had pretty fair produce, at least a better average than our neighbors, and we have had a good demand, and fair prices for all we could Our wheat brought the English gold sovereigns, or their equivalent, to our cash-So far, well; but let us consider if wheat be the most profitable grain for us to grow, or if other grain may not be substituted, in part, for wheat, to our greater profit. First, let us enquire the yield of wheat and of barley. We take the report of the G. T. R. R., for the average yield throughout the country. We should have had reports from the Department of Agriculture -but great bodies move slow-of barley the average yield has been, as shown by us in last issue, from 25 to 40 bushels per acre,—say an average of about 32½ bushels; of wheat the average is about 22 bushels—a difference in the yield of bushels of 10 in favor of barley. Were the same price paid for both, barley would, from the returns given, be the most profitable; but barley also commands the highest price. In this market the highest highest price. In this market the highest price for wheat is \$1.60 per 100 lbs., and for barley \$2.15. But as the yield of wheat and of barley has been given in bushels, and the bushel of wheat is the heavier, let us enquire the price of each per bushel. In Toronto, wheat is reported as sold from 93 cents to \$1.03: per bushel, barley from \$1.12 to 1.13. In Chica go the Prairie Farmer says that wheat sold

then is the average yield of barley much greater than that of wheat, but the price is also higher; and there is a good demand for barley not only in the home market, but in the United States as well, where Canadian barley is much sought after for malt-

We do not say to our readers, sow barley and not wheat, but we advise you to consider with us if it be not advisable to sow less wheat and more barley - to depend less on one variety of grain. Were the high price of barley merely adventitious, it would be unwise to change our crops in consequence, but the demand for barley has been increasing for some time; there has been an increasing consumption of malting barley in Eng-land, with an increasing advance in its price, compared with wheat. This is fully shown by the reports from the English markets. Malting barley formally was sold in England for about two-thirds the price of red wheat; but for the last two years it has been within a few shillings per quarter of as high a

#### December on the Farm.

In this month we have the shortest days of the year, and then the indications of a coming year in the lengthening days. our Canadian climate there is not the same pressure of hurrying the work of the farmabor that we experience at other times, and the shorter days are well designed for the relaxation in our labors. At other seasons the necessity of making the most of every hour is such that they who have been straining every nerve for months need for a little time the unstringing of the bow. But December, though a time of less labor, is not one of idleness for the farmer.

CARE OF STOCK.—No little of our labors during the spring and fall has been the pre-paration for the winter care of stock, and in proportion as we have been diligent in that preparation, will our labors now be the Cattle in the stalls and sheds require good feeding and careful attention. Keep up their condition at all times with needed food and warmth. This, our advice in November, is our advice now, also. It is in season throughout the winter and the stock that has been properly cared for till the present, will be easier fed and kept in good condition than those that have been neglected. The stables should be warm and properly ventilated. An animal, though getting the best food, and in proper quantities, cannot thrive without the necessary warmth; and with that needed accompaniment a less quantity of food is necessary. Food is needed not only to support the body supplying the wants caused by the incessan wasting of its substance, and to add to its weight; it also is the source supplying the heat necessary for the continuance of animal Cattle not having sufficient warmth need the more a greater quantity of food to supply this want, and consequently much food is thereby wasted. In providing for the warmth of your stables, do not neglect their proper ventilation; without it they must be injurious to the health and welldoing of their occupants.

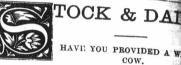
The cutting and hauling of wood, with the care of cattle, and any little carpenter work and repairing of harness are the work of December on the Farm. It should also be a season of real enjoyment. The social pleasures of the long winter evenings are relished by all.

This is the time to make up the farm accounts. Let not the new year come till you have known how far the farm has for the last one been profitable, and examine the expense of each crop and its value. Every farmer should be able to say what profits are to be realized from a field of wheat, or oats or barley; and how much a bushel of potatoes or turnips may cost him when all the expenses are deducted.

THE GARDEN.—Of the garden we may say it sleeps, but we hope for a bright and pleasant awakening. Securely covered with their protective mantle of snow, the flowers await the enlivening breath of spring. For the present we enjoy our window garden all the more that the winter is abroad. Light. moderate heat and watering are the requirements of the winter flowers in our window garden. The window for the flowers should, when possible, have a southern or an eastern aspect. Let them have all the light that the few hours of sunshine allow them. It is as necessary as heat. Let the heat be for cash from 77½ to 86½ cents per bushel, and barley from 90 cents to \$1.22½. Not only

ever it is practicable, taking care the ever it is practicable, taking care that be not too much exposed to a cold do Use lukewarm water in watering; cold is injurious. To prevent the port choked with dust, it is needful that choked with dust, it is needful that have frequent washing. Not only in health's sake is this necessary. As in his cows and lived in them for their beauty, we should that their beauty is not concealed by a cowned 30,000 head covered ranging over

We would call attention to Mr. Heaville sale of Short-Horns, which takes pladest child is a girl, mind of nine children, mind of nine chi



Who is not fond of milk in some shape he entire winter mar think it would be difficult to find the indi dry hay, of which r al; and yet, as a rule, milk is harder to goled under foot. We the country than in the city, if a person hore per ton than hay unfortunate as to have no cow. Instemethof the latter, having the milk delivered us in the cit ire food that is bulk; must be brought by the individual riqueto as traw, wheatst it, who is often obliged to pay higher any, be cut up finely than in the city, even if then the deliver or with wheat branchilk be not considered a favor.

The reason is that farmers, who of all sor horses at a much should have a bountiful supply, often hay alone. A large themselves in the winter restricted to a mixing the feed. strippings obtained from the Summer of this finely cut food, that are roughing in the yards entirely on erfor animals to be ferfood.

that are roughing in the yards entirely on erof animals to be fed food.

The horses are kept in comfortable star to wet it thorough the star to we will be star to wet it thorough the star to wet it thorough the star to wet it the star the star the star that the star t

small and decreasing quantities of very those small feed or milk.

There is no animal kept in the Winter or ore milk, than the of farm that should receive, nor that will tless expense. Swall that should receive, nor that will tless expense. Swall that should receive, nor that will tless expense. Swall that should receive, nor that will tless expense. Swall that should receive, nor that will tless expense. Swall that should receive, nor that will tless expense. Swall that should receive, nor that will tless expense. Swall expense of the following the treat expense of the following the treat expense. Swall tless expense. Swall the tless expense. Swall tless expense. The form of the form of the f

sufficiency of water to enable it to be passed through the animal. In this last case the very small quantity obtained will be exceeding her in the ways ready to fe small quantity obtained will be exceeding her in the ways received in the flow of milk, will be found to furnish the elements of milk very much in excess of the on and symmetrical or poorly cared for, however richly fed.

The lack of milk in winter among the average farmers of the country is one of the crying evils of the homestead. When one d." That "is a me the farmers learn how easy it is to have a large provide one and that the daily care bestowed is not onerous, thereafter but little difficulty will be experienced by the housewife in inducing the purchase of a new cow when needed if circumstances were such that the farm fairs to provide one. Generally if no better play can be realized, extra care and feeding to yoften have a few household along till the new cows begin to coming the latter part of wicter. At all events, those farmers who have not already provided for an abundance of milk this winter, should immediately do so. Plenty of milk will save in so many ways ample pay all the cost, an istill have a large margin beyond, wits to the fact tha events, those farmers who have not already provided for an abundance of milk this winter, should immediately do so. Plenty of milk should immediately do so. Plenty of milk will save in so many ways ample pay all e judges having cal the cost, and still have a large margin beyond, arts to the fact that Michigan Franchisch Michigan Farmer.

#### A PROSPEROUS TEXAN.

In Southwestern Texas, there is a cattle raiser who has lived there twenty years. On going there he picked up a dozen cows, and branded them. He had no land, but was the possessor of a wife, two or three children, and a few dogs and two or three horses. He kept

, and ranging over mily of nine children,

n the habit with t

It was not ti which were evide mall breed had be reed class, the as icial authority, wi ashires are about t bone. They are c arge whites being between the two. Yorkshires was of be fed up to eight

bably with much prolific breeder. t believe in the eco g the large breed ., 1874

Dec., 187

l attention to Mr. He t good animals.

CK & DAT I YOU PROVIDED A WI

EROUS TEXAN. Texas, there is a cattle

there twenty years. On d up a dozen cows, and had no land, but was the wo or three children, and or three horses. He kept

st, it is needful that rashing. Not only for this necessary. As we have any conceased by the concease of the concease mily of nine children, five of whom are

orns, which takes pladest child is a girl, nineteen years of Heacock has devoted be can rope a steer, kill a wolf with a wall money to build strangle a dog at her arm's length. In mased several head of shouse is a nail keg, nearly filled with E. Cornell, of Ithaca is, while in the pantry is a flour baring a fine Bates bull, is filled with silver pieces. When he le, it is for coin which is dumped on le, it is for coin which is dumped on silver many other to draw or silver. The house occupied by this or silver. The house occupied by this us family is low, built of logs, and three rooms. The father and mother the dining-room, the girl sleeps in the m, while the boys sleep in the ad

WINTER FEEDING. d of milk in some shape he entire winter many cattle get litdifficult to find the indi dry hay, of which much is wasted ule, milk is harder to goled under foot. When corn meal in the city, if a person hore per ton than hay, it is poor polhave no cow. Instermuch of the latter, but as our anilelivered us in the cit ire food that is bulky, as well as nuby the individual riquet ost straw, wheat straw, corn stalks, obliged to pay higher any, be cut up finely to be used with even if then the deliver or with wheat bran, which is still a later and the countriest supply, often hay alone. A large box should be a mixing the feed. Into it put an of from the Summer of this finely cut food, proportioned to in the yards entirely on erof animals to be fed, pour on enough ater to wet it thoroughly; for every en the habit with too many to use in the yards entirely on ero's animals to be fed, pour on enough atter to wet it thoroughly; for every tept in comfortable stry bushel of the cut feed one bedded, curried and bruntle, sheep and hogs an ter to wet it thoroughly; for every

ich dry food, with only is he, "is peculiar to Yorkshire, to enable it to be passed deep chest, and short legs with fino a ways ready to fatten and turn the ained will be exceeding her in the way of roasters, small properly kept, and in final bacon, or medium. Three or efound to furnish the element of the way of roasters, small bacon, or medium. Three or enable in excess of the or and symmetrical on the food which ly keep one lean and gant large in winter among the average of the country is one of the re is the "Yorkshire medium, of the housewife in in the way of roasters, small bacon, or medium. Three or efforts and symmetrical on the food which ly keep one lean and gant large in the country is one of the re is the "Yorkshire medium, of the housewife in in the way of roasters, small breeds and part large in the country is one of the re is the "Yorkshire medium, of the housewife in in the way of roasters, small breeds and part large in the country is one of the large and perhaps the tunites, in a striking degree, the large and small. It has of a new cow when needed the such that the farm fair, and the 'umberland, which is the small York. Like the large of the large and the 'manufally if no better plant are are and feeding to a such that the farm fair, and the 'umberland, which is the small York. Like the large of the small York. Like the large of the small York. Like the large of the weak have these spots more or less, read have a few pale spots on the part of winter. At all the small york. Like the animal read have these spots more or less, read have these spots more or less, read have these spots more or less, read the 'cumberland, which is the since as in number a the animal read have these spots more or less, read have the several superwhich were evidently clo reed class, the aspiring intruders icial authority, withdrawn." The shires are about the same size as respondent with smaller heads and bone. They are called better feed-small whiter, but not quite so

mall or at most a medium breed, that can be fed up to two or three hundred pounds at nine months old, and then be ready to put into the

pork barrel The Yorkshires exhibited by Capt. John B Moore at the Concord cattle show, were among the finest specimens of the pig family that we ever saw-Mass. Ploughma.

WINTER CARE OF DAIRY STOCK. To illustrate the economy of comfort in the winter care of stock, I will state what a long and close observation in wintering dairy cows has developed. A half century or more ago the farmers of New York were less careful of their animals than they are now. It was no uncommon occurrence then for farmers to let their cattle run all winter with no other protheir cattle run all winter with no other protection than a board fence or an open shed at the side of the yard, and when they did so, it cost according to size, 2½ to 2½ tons of hay to winter a cow, averaging for 26 weeks 27 to 30 lbs. of hay per day. When they built barns and sided them up with green lumber, so that when the boards shrunk the cracks between them wore half an inch or more in width, and the stables were so arranged that the wind the stables were so arranged that the wind that whistled through these cracks swept all the heat radiating from the bolies of the stanchioned cows up into the loft and out at the cracks above, the case was not much improved. Some saving in waste was effected and that was about all. But when these open barns were succeeded by tight ones, boarded with matched stuff well seasoned, and the stables so arranged as to utilize the heat radistables so arranged as to utilize the heat radiating from the cows' bodies, there was a great diminution in the cost of keeping. A saving of one third of the keep formally used was effected. Eighteen to twenty pounds of hay a day kept the cows in better condition in the comfortable stables than twenty-seven to thirty could in the old ones or in the condition and could in the old ones or in the open yard. When tight barns for cows began to be built in central New York, dairymen were perfectly surprised at the saving it effected in fodder. surprised at the saving it effected in loader. I have, time and again, heard them declare from estimating, what I found to be true by actual weighing, that a tight and warm stable saved fully one third of the fodder formerly used in the open ones for a long time so generally in use. I would suggest, if they have not already done it, that the dairymen and stockkeepers who have suffered from drought can not in any way cheapen the cost of wintering their stock so much as by providing for them the most comfortable quarters they pos-

But there is one consideration which should not be overlooked in arranging for a tight barn and that is proper ventilation. The owner of a tight barn, unless he makes proper arrange ments of this kind, will soon have what is fitly described as a "foul, recking stable." Coll air is not necessarily good air, nor i warm air necessarily bad air, although the chances are that air made warm by animal radiation of heat will become vitiated. The safeguard is effective and properly arranged ventilation. This ventilation is essential to comfort which Professor Arnold so wisely ad vocates, and every man who takes measure to profit by the above suggestions this winter should study his plans carefully to gain good air without having a chilling current strike his stanchioned animals.

COWS-THOSE THAT PAY

A good cow costs but a trifle, if any more to feed and keep than a poor one. The difference in the value of their product should be credited to her as so much interest on her estimated valuation. To illustrate:—If a cow simply yielded enough to pay her way and nothing more, she is worth only what she would bring of the butcher. If another yields a net profit of \$20 a year more than her keeping, she is as good as \$200 at inter-Still, farmers are sometimes so negliest. gent of their own interest as to sell their best cows for a mere trifle more than one that is nearly worthless. This is not as it should be; and so long as the practice is continued the stock of the country will deteriorate. A good sentiment is expressed in the couplet "Beef a poor cow ever, sell a good one never.'

One cow of a herd may be dear at \$200. Different cows in same herd, with the same feed and treatment every day, often vary 100 per cent. in their profits. Weed out the poor, perpetuate the good. The stalk of the wild apple may be made to bear the russet, the greening or the golden pippin.

Imported cattle, or cattle taken into an entirely different climate from that in which they were bred, seldom show the same de-

pulsation increases to twice its normal rate, fever engendered and death ensues.

No animal should be required to drink water which the owner himself would refuse, and especially so if that animal is the cow from which you hope to make good butter. It is sufficient on this point to say that the pure water is an indispensible article to the success of the dairymen, for good butter or cheese can not be made where good water cannot be obtained.

ROOTS FOR STOCK FEEDING.

In Brittany the parsnip is becoming the favorite root for stock feed. And its culture favorite root for stock feed. And its culture is extending. In the Channel Islands this root forms a large portion of the fodder of the Jersey, Guernsey and Alderney cows, and much of their value as rich milkers is undoubtedly due to the use of this root for a long series of years. It is well known to physiologists, says the N. Y. Tribune, how great an effect upon the condition of a breel of animals is caused by a long period of careful feeding, and this is a conspicuous instances of it. This root in many parts of France is substituted as oats for horses. If pounds being given a day with due to the use of this root for a long series of for horses, 16 pounds being given a day with the best effect. For pigs it is also largely used, 9 pounds of cooked roots being fed four times a day. One great advantage of this root is its hardiness; the supply for spring may be left in the groundall winter, and in the best condition to harvest at any time when needed.

I used to keep them in my younger days, to furnish meat for my family and to sell to get a little spare cash. The kind with small bones, small ears and short nose, that with good keeping, at a year old would make about three hundred and twenty-five pounds of rork. was my favorite (the first I ever fattened weighed 260 pounds at eight months old.) Milk and potatoes are the best food for pigs after they are weaned, to make them thrive they also relish a few grains of corn as well as HOW TO FEED PIGS. they also relish a few grains of corn as well as a squirrel does a few nuts, as they grow along. In the season for it, they should be supplied daily with fresh green weeds or clover; a few green corn stalks are also good to feed them in their season and the slops and refuse of the kitchen with a little meal are also good. With this food they should be fed liberally, but not to surfeiting, and keep growing right along in a thrifty condition till about two months before killing time, during which they should be fed liberally with more concentrated and fattening food. Boiled pumpkins, thickened while hot with corn meal, are excellent for them, so also with corn meal, are excellent for them, so also biled sweet apples, thickened with meal, and so is scalded meal alone; and some people think that, for some days previous to slaughtering time, they should be fed with dry corn and pure cold water, as these make the meet harder and sweeter —R. Smith, in Germantown Telegraph graph.

CARBON FOR HOGS.

Turf, Field and Farm says: No cost with farmer has failed to notice the avidity with which hogs, whether in confinement or at large, which hogs whether in confinement or at large. This will devour quantities of rotten wood. This decayed wood is but a form of carbon; and carbon being an antiseptic, the instinct of the animals leads them to eat it, as the instinct of dogs urge them at times to eat grass because of its sanitary effect. On one occasion the writer had a pig which weighed about forty pounds, put into a pen and carefully tended in every way. The allowance of food was, with the chance offal from a small kitchen, sixteen ears of large southern corn per diem, given twice a day. Having a kiln of charcoal in the woods close by. I determined to try how much of this charcoal could be converted, by aid of the digestive organs of the pig, into fat, which is but another form of carbon. By degrees the supply of corn was diminished and carbon substituted for, it until finally the corn was reduced to eight ears. At the end of nine months a pig was butchered and weighed, net, two hundred and five pounds, and the lard and meat were of exceptional fine quality.

EXPERIMENTS IN FEEDING CATTLE.

The following experiments were made, suggestion of Mr. Flagg, Lawrence, commencing November 17, 1873, continuing seventeen weeks, and ending March 17, 1874.

The steers, fifteen in number, were short-horn grades of medium quality, bought from farmers of the neighborhood the previous summer, and were, with the exception of No.

13 and two calves, past two years old.

Lot No. 1.—Steers Nos. 1, 2, 3, 4, 5, and 6, were fed in the lot with thirty others, without shelter of any kind, 24 pounds of husked corn in the ear in boxes, and timothy and along heaving set the set of thirty and the set of the set they were bred, seldom show the same depetween the two.
Yorkshires was of great size. It be fed up to eight hundred pounds bably with much profit. It was prolific breeder.
The believe in the economy of keeping g the large breeds. We perfer a straight of the stakes cognizance of the change; the large breeds.

They were bred, seldom show the same depresses at home, unless given special care. Old cattle frequently due before getting acclimated. This is strikingly illustrated by shipping them south, especially in the spring of the year, if the animal is fat. The arterial system if the animal is fat. The arterial system if they were bred, seldom show the same declover hay in racks ad libitum, they also had ready access to water at all times. No. 1 weighed in November 17,th. 1,120 pounds, and weighed out, March 14, 1,280. No. 2 weighed in 1,100, gained 230, weighed out 1,330. No, 3 weighed in 1,200, gained 160, and weighed out 1,360. No. 4 weighed in 1,500, gained 210, and weighed out 1,360.

No. 5 weighed in 1,290, gained 260, and weighed out 1,550. No. 6 weighed in 1,110, gained 240, and weighed out 1,360. Total gain of six steers fed 17 weeks, 1,260, an

average gain of 210 pounds.

Lot No. 2 consisted of four steers, each fed Lot No. 2 consisted of four steers, each fed in a roomy box stall, in a warm but well-ventilated barn. They were turned out to water daily at ten o'clock: their stalls were then cleaned and littered, and they were returned at eleven o'clock. No. 7 was fed six pounds of dry corn-meal morning and evening, and in addition five pounds of chopped clover hay of superior quality, and at noon fifteen p unds of sugar beets. This steer having gained but thirty pounds in eleven weeks, his feed was changed to twenty-four pounds of corn in the ear, and hay the same as before. In the remaining six weeks he gained one hundred pounds. The same gain as attributed to the fact that the steer refused to eat the meal with heartiness and neglected, to eat the meal with heartiness and neglected. after some weeks, the beets altogether. No. 8 was fed eight pounds of corn in the ear, 8 was fed eight pounds of corn in the ear, morning, noon and evening, and clover hay same as above. He weighed in 1,130, gained 210, and weighed out 1,340. No. 9 was fed eight pounds of corn in the ear, morning and evening, fifteen pounds of sugar beets noon, and hay as Nos. 7 and eight. He weighed in 1,090, gained 180, and weighed out 1 270. No. 10 had six pounds of corn meal morning, noon and evening, and hay as above. He weighed in 1,100, and gained 190, and weighed out 1,330. The average gain for this lot was 1774 pounds.

774 pounds. Lot No. 3 consisted of two steers, fed under Lot No. 3 consisted of two steers, fed under an open but warm shed, eight pounds of corn in the ear, morning, noon and evening, and clover hay as lot No. 2, Steer No. 11 weighed in 1,050, gained 210, and weighed out 1,260. Steer No. 12 weighed in 1,180, gained 230, and weighed out 1,410; an average gain of 220 pounds.

one of the conclusions to be drawn from the above exteriments in feeding—and they were previously enforced and illustrated by like results obtained from similar trials made like results obtained from similar trials made the previous lyear—is that the common wild steers do not become used to confinement in so short a time as one hundred and nineteen says, and therefore the gain that might be expected from more comfortable quarters is not realized; a fact to be noticed by Eastern buyers, who purchase Western steers for fall-feeding. This may be seen by comparing those fed in the sheds without restraint, with those fed in the boxes, as well as those fed out of doors—the best average gain having been made on corn fed in the ear in an open shed. In regard to beets, the fact seems to be, so far as observed by Mr. Lawrence, that they are very valuable for milch cows and calves, but they do not appear to fill the place of corn in fattening steer.

very valuable for milch cows and calves, but they do not appear to fill the place of corn in fattening steers. Thus, steer No. 9, fed on corn and beets, gained 180 pounds, while steer No. 8 fed on corn alone, gained 210 pounds. The meal fed was from sound old corn of the crop of 1871, and the corn was of the crop, of 1873, and was soft and chaffy. Comparing the gains made with those made the previous winter, the conclusion is, that when a steer is winter, the conclusion is, that when a steer is full fed on soft corn, like that of the crop of 1873, he will eat more pounds and make more flesh, than on hard corn of such crops as of 1872. When ground into meal, the hard corn, however, is altogether preferable—the difference being simply amatter mastication of and diges tion. The twelve steers made an avera of 1-69 pounds of each day for 119 days. The twelve steers made an average gain

Lot No. 4 was composed of two grade calves, weaned at six months (February 1st, 1874. trequired 4.58 pounds of n.eal to make pound of growth, while with the twelve steers reducing the corn eaten to meal, 10.56 pounds were necessary to make the same weight. The inference is, that the time to feed cattle is when they are young for with college at the same. they are young, for with ordinary keeping the calves would have shrunk in weight iostead of

calves would have shrunk in weight iostead of gaining immediately after weaning.

As an exceptional instance of what good pasture and corn will do for a thin steer, No. 13 was bought April 23, 1873, and weighed 620 pounds. He was immediately turned on pasture, and, September 13, weighed 1,120; was put on corn November 17,th with the bunch of thirteen others referred to, kept their till May 10, turned off at 1.559 pounds, having till May 10, turned off at 1,559 pounds, having gained 960 pounds in 13½ months. — B F JOHNSTON.

A NICE PUDDING SAUCE.

Mix one cup sugar, four teaspoonsful of corn starce and just cold water enough to dissolve thoroughly, then pour on a cup of boiling water and let it boil twenty minutes or a half an hour. Then add two teaspoons ful of good cream. Flavor with current, strawberry or raspberry juice. In making sauce if the flour is just as good as corn starch. Use a little more water than the recipe, so as to allow for boiling away.

Many Canadian laborers have left the farms and workshops of Vermont lately on account of reduction in wages. They find

TIGHT



DEEP CULTIVATION.

The advocates of deep cul tivation will read with satisthe following remarks made at a

recent meeting of the Maidstone (England) Farmers' Club: Mr. Barling said he should confine his re-

marks chiefly to the principle of ploughing. Ploughing was a mechanical action, which was to bring about another action—a chemi A remark had been made that cal action. evening to which he attached much weight. It was possible to cultivate well without ploughing—that was, that by moving the soil sufficiently they could bring about fertility without ploughing. It was thus brought about: The organic matter within the soil was capable of being dissolved and brought into a soluble condition if it be sufficiently exposed to the oxygen in the air, but if they kept that organic matter sealed up by earth—it might be kept as many generations as they like—they would get nothing from it. The more they broke the soil and let in the overces of the six the soil and let in the oxygen of the air, the quicker would the organic matter which they, or perhaps their grandfathers had placed in the soil, become soluble and the food of seeds which had been placed in that soil.

The question of steam ploughing as against horse ploughing seemed to come to this—it did not matter how they ploughed, whether by animal force or the force of machinery. They might plough by turning over the sod or by breaking it up, but whatever they did, their object was to let in the air. In advocating deep cultivation, Mr. Barling said that if they broke the soil low down—he did not say turn it over—they altered the did not say turn it over—they altered the condition of that soil; they render it warmer upon the whole. If they laid the thermometer on the land, it would be found that the better and the deeper the soil was broken up, the warmer would be the land, and temperature was one of the elements favorable to the life of plants.

Mr. Paine has remarked that they could not get rid of the water by deep cultivation; but it would be better distributed, and land that has been thoroughly and deeply worked would, generally speaking, be moist, but not surcharged with water. Moisture was one of the elements upon which vegetable life so greatly depends; an excess was, however, harmful, but a certain quantity was need ful. The land being warmer and moister, must, on principle, be greatly changed by deep cultivation.

OPEN DITCHES ARE NOT DRAINS.

The fact intimated in the title of this article may be a startling one; it is nevertheless true, and it must be within the experience of multitudes of the readers of the Rural that it has been demonstrated over and over again. Who has not walked through a meadow which some one, perhaps the reader himself, has endeavored to drain with open ditches, treading close to the edge of the ditch in the almost vain hope of finding firm ground and dry walking where the ground should be free from water, if anywhere? Was it found? No, certainly not, if the ditch was an old one—possibly, if it had been recently cleared out; and most likely, if the ditch had been newly dug, the ground was dry everywhere in the vicinity of it.

As soon as warm weather comes on after a As soon as warm weather comes on after a ditch has been dug, and the earth becomes somewhat heated, the water from the oozy ground is of a decidedly higher temperature, and green scum appears upon the surface and covers objects lying in the water or moistened by it. Innumerable masses of fungus growths, mold and lichens will be distinctly visible to the close observer, starting up and creeping over stones and soil, and sand, wherever the warm moisture prevails. They penetrate the soil where these conditions exist, namely, warmth, water and

The lowest portions of the sides of the ditch are first filled and made impervious to water. It being thus dammed back, it overflows a little ridge of impervious earth, and the ditch is still effective, but it drains less

The encroachment continues, and the "Agarios and fungi add mildew and mold," alternately moistened into life and dried into hard cakes with each shower, creep higher and shut off more and more water from the ditch, which in a few weeks, or months, at furthest, is absolutely useless months, at furthest, is absolutely decrease except to carry off the surplus surface water. If the sides be pared off the water will flow freely for a while. This takes place more or less when the ditch is cleaned out, and so this operation becomes a frequent necessity. -Moore's Rural New Yorker.

MAKING MANURE ON THE FARM.

Every farm should furnish its own re ources for manure; for, although near cities the wise farmer avails himself of whatever waste matter he can get that is convertible into manure, the crops there cultivated are generally of an exhausting nature and fully sufficient to carry off the extra fertility so added. But only a comparative small number of farms are situated near enough to cities so that their owners can avail themselves of this source of increasing the crops, and therefore the great number are obliged to fall back upon the resources of the farm itself.

It is an English maxim that "a good farm is like a good joint of meat that only requires basting with its own dripping." Translated, it means that a good soil contains within itself all the resources of increased fertility. It is true the joint of meat must have been first made good, and so must the farm.— Man must feed the animal to get the good joint; nature originally fed the soil reacy

How many who have opened new farms on virgin soils have left them as good as they found them? The history of all countries answers, Very few. Man first impoverishes, and then, by the most laborious and costly means referrilizes the group soil. and costly means, refertilizes the worn soil. How quickly the farmers of the West are bringing their land to that state when this refertilization will be the all-important question, the decreased and constantly deereasing averages of grain per acre will tell. We do not mean by this that the time has yet come in the West when it has become imperatively necessary that an elaborate system of making manure and compost should be followed, although it might easily be demonstrated that in many sections such a course would be profitable. Nevertheless. the time has come when it will pay a heavy interest on the investment to save carefully and give back to the soil whatever manure is made from the feeding of animals; and this brings us to the point we wished to

The growing of clover and the grasses lies at the foundation of profitable farming throughout the temperate zone. These furnish the cheapest food for stock of every kind, exclusively so in summer, and are the main dependence of stock animals in winter. No crop is so constant in growth, early and late, under all kinds of treatment; no other crop is so well adapted to a variety of soils, wet and dry, heavy or light; none other furnishes so great a burthen to the soil in its tops and roots for plowing under, or the decomposition of which will better support successive crops of other growths; none so ameliorates the soil and renders it capable of furnishing the best conditions for promoting the best results from such crops as

are grown for sale.

Again, he who raises plenty of grass, has resources for the feeding of stock and for making large quantities of manure. In the summer the manure is dropped where the summer the manure is dropped where the animals feed. Plowing under the sward produces large crops of corn and other grain to be sold or fed to stock. If fed as it should be, it gives an increased amount of the richest manure, for it must be remembered that the value of manure is just in proportion to the value of the food consumed by the animal. If the animal be fed straw only, the manure is but the refuse of straw, as the animals so fed are but the skeletons of their types; and the farmer who feeds his farm from the manure of illkept stock, is sure to have a soil producing more straw than grain. High feeding makes high manuring possible, high manuring makes fat land, and fat land makes rich farmers.

In this we do not propose to overturn the generally recognized systems of teeding in the West. If we were at present engaged in fattening cattle in Central Indiana, Illinois, Iowa and other sections of the great nois, Iowa and Iowa nois, Iowa and Iowa nois, Iowa

corn zone of the West, we should follow in a measure, the usual plan of feeding cattle in the fields in good weather, and allowing swine to glean the droppings. scarcely anything is lost, and, provided the animals are kept secure from storms, there is no questioning the economy of the method, when corn is cheap and labor scarce and high. The question of how to feed, every farmer must decide for himself, and this every practical, thoughtful man will naturally do. The man who makes grain farming his exclusive business, with a view to selling the grain and burning the straw or feeding it to cattle, always ends in im-poverishing his farm and ultimately himself. poverishing his farm and ultimately himself. He is drawing constantly upon his principal. The first few years, it is true, this must often be done. If followed up, it must ultimately end in disaster. And yet, how many men in the West think this the perfection of farming! fection of farming! We might go on and fill pages in showing

the various resources that might become available on any farm in the making of manure—the inexhaustible beds of muck everywhere found, peat, the scrapings of ditches, ashes, lime and plaster; the liquid manure of stock, really the most valuable, and usually entirely lost; the slops of the kitchen and the water used in washing; the contents of privies, accumulations of bones, waste animal and other matter that litter yards, befoul store rooms or decay in cellars, yards, below store rooms of decay in centars, giving rise to miasma that often ends in disease and death to the possessors and their families. The Western Rural has heretofore spoken upon this subject, and it is not necessary now to more than call attention to it, with the especial object of pointing out the importance of grass as a principal source of increased fertility to already worn out farms.

We acknowledge that "all flesh is grass;" let us also remember that all grass is man ure. Nature fertilizes the earth by the direct decay of vegetation. It is the province of the good farmer, while reaping the reward of his well-bestowed labor, to see that the refuse of the tarm-manure- is faithfully applied; it may not always be done to the best advantage by the direct application of grass as manure. He has been endowed with intelligence to convert grass into flesh; returning the manure to the soil,

he repays to nature only the proper interest which she demands.

SICKNESS OF THE SOIL.

From the Mark Lane Express. The partial failure of the wheat crops for

The partial failure of the wheat crops for the last three years has led many persons to conclude that the land of England has become sick of such grain, and that it will never recover, except by a protracted fallow; in other words, by laying it down for pasturage, or by resuming the triennial course of husbandry, which consists of two white crops and a fallow. The present year will be enough, one would suppose, to diswill be enough, one would suppose, to dissipate the idea of sickness of the soil through any other known means than injudicious cultivation, or starvation, by the withholding of manure. There is no doubt that, like working horses or any other ani-mals, hard labor and scanty feeding will have mals, hard labor and scanty leeding will have its effect, whether upon sensitive animals or insensible plants, Dr. Hooker's theory notwithstanding, which, literally speaking, gives plants the power of swallowing and digesting their food. If the farmer neglects, on is too poon to cultivate his lend in glects, or is too poor to cultivate his land in the proper manner, he must expect the certain consequence—a short yield and poor quality, as the inevitable result. This complaint of sickness of the soil is no new one, but the rather very old—say as the Christian Era itself. Did not Columella during the first century write on the subject, in reply to those who just discovered the same mare nest? He has a whole chapter about it, but we shall be content with a paragraph: "It is not, therefore, from weariness, as very many have believed, nor from old age, but indeed from our own slothfulness, that our cultivated lands do not so bountifully answer our expectations as formerly; for we might receive a greater product if the earth were refreshed and cherished with frequent seasonable and moderate stercoration. Arthur Young, whose opinions were ever

of Agriculture, of which he was editor. The experiments were mad a piece of old pasture of many year's ing, the soil a sandy loam, with a clasubsoil, and his deductions were as for That potatoes, as a fallow crop, were exhausting than any other without ple manure, and that barley, beans ar succeed better than wheat after pot That beans are the most valuable new land, and that the fertility of su depends for its continuance greatly number of bean crops planted on that the oftener they were grown on better were the succeeding crops of kinds of produce, and that three su crops of beans were followed by a ordinary produce of wheat. He al that successive crops of white corn structive of fertility, and that the crops will reduce the land to a foul profitable condition. He also as by the experiment that beans and b ternately, and beans and wheat, al nately, were the two most procurses; and lastly, that five crops and one of wheat not only yielded profit, but left the land in the very

dition. On new land, also, as is well l every farmer of any intelligence, the most profitable crop that can On the other hand, turnips, cabb potatoes are declared to be the profitable in any course of croppi yet, what would the farmers of su lands as those of Norfolk, Suff others of the Eastern Counties, do the four-course husbandry? And the supply of animal food be provi out green crops? The number of sheep kept in Arthur Young's much smaller than at present, but ers had learned to know the value crops, although they were chiefly as substitutes for the bare fallow materials of which, with the help manure is manufactured, besides ke land clean by hoeing. There is an ment in this respect, in the valu and green crops from the incre sumption and enhanced value of sumption and ennanced value of indeed, of animals of every kin farm, by which the profits of by well as of fattening are rendered munerative. A good deal of land withdrawn from the cultivation produce and laid down in produce, and laid down in grass, in Ireland; but this is quite irres any decadence or diminished ferti soil, and is in consequence of the value of pasture land and the high butcher's meat; but in Ireland from the climate being more adapt dampness, to pasture land and the cattle, than for the cultivation of Ireland shows a decline duce. of land sown yearly; and while dear, and the transit of cattle fr difficult, and therefore limited to countries on the continent, the orn crops cannot increase.

CAPABILITIES OF AN ACR

J. M. Smith a market gardene Bay, Wis., furnished the Hortica interesting statements of his exp high culture. He has found variable, and not a single excel that the more he has spent in and manuring, the greater have profits per acre. Last season he fourteen acres, and began wil thorough and expensive cultive ever before. The result was, the there was a "terrific drought". dryest seasons ever known in the after spending \$3,986, or \$384 P had a better balance than any pr He appeared to regard constant especially through drought, in with copious manuring, as all Stable manure is the standard; of superposphates, plaster, lime, manures as experience and good out. "After you have learned he money to the best advantage," is a larger profit may be made by \$300 per acre than with less. second year, if your land does no expenses, taxes and 10 per cent. acre, there is something wrong that did have some acres of land that founded on facts, made a series of thirty-six expenses for two years, but for years past have not failed to pay

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nnot increase.

"terrific drought" ing \$3,986, or \$384 per balance than any pred to regard constants through drought, in ous manuring, as all ure is the standard; sphates, plaster, lime, experience and good ter you have learned h the best advantage, profit may be made by acre than with less. er, if your land does no taxes and 10 per cent. e is something wrong ne acres of land that for two years, but for thave not failed to pay t \$2,000 per acre. I

short time." He adds that he is now aiming at 1,000 bushels of onions per acre, then a crop of carrots or turnips, or 500 bushels of early potatoes, or if straw berries, 12,800 quarts, or 400 bushels per acre. The amount is not wholly impossible; as we have known, under our own observation, this rate on two thirds of an acre. -N. Y. Observer.

#### PRIZE FARMS IN SCOTLAND.

Prizes were given for the best managed farms occupied by members of the United Banffshire Agricultural Society. Thirteen farms were entered in competition; and the judges were requested to have regard to the general condition of the respect to cleaning, manuring of the fields, and result of management, as shown by prolific crops of grain, and green crops; to the state of the houses and steadings as regards order, repair, and tidiness; to the state of fences and gates; and the general style and condition of the stock on the farms. The official report of the judges merely enumerate the prize-winners, and conveyed the opinion that much good was likely to flow from the competition; but the following are the particulars respecting the three to which the premiums were

CORSKELLIE. — Mr. Leslie, Corskellie, was awarded the first prize of £50 The farm of Corskellie is situated on the right bank of the river Deveron, in the parish of Rothiemay. It is on the property of the Earl of Fife, and is tenanted on a lease of nineteen years. The sanitary arrangements at the farm are excellent. stables and byres are causewayed, and have side drains leading into main drains running along their centre, and emptying themselves into a tank in the manure yard. The sewage is periodically pumped upon the manure heap, or used in making a compost. Water is introduced into the steading by gravita-tion, and the supply regulated by ball-cocks at all the drinking troughs. All the houses are well lighted from the roof with cupola lights. It should be kept in view that the steading is contrived for a partly feeding and breeding stock. Provision is made for different classes of stock being kept entirely separate from each other, and yet within easy reach from the stores of supplies. Exery provision has been made for the successful management of the stock, without waste of space or labor. By assiduous attention everything is kept in perfect order, a result which, it is evident, cannot be attended by a "spurt" of activity to suit an occasion. The land is managed upon the six year's shift, the rotation of crops being three gaasses, two white crops, with green crop intervening. The farm is in sixteen fields, varying from eight to forty acres in extent.

The manure is all applied to the green crop. Farm-yard manure is applied to the extent of 20 square yards per acre. To that is add ed from 10 to 12 bushels bone dust or well ground bones, and about 3 cwt. superphosates or dissolved bones as a stimulant to the braird. The farm-yard manure is scarcely ever sufficient to cover the whole break, but it is not applied there in a proportionate increase in the quantity of bones. Of course care is taken not to apply artificial manure alone to the same part of the farm on two successive rotations, and there is judicious caution in applying the proportions of manures to portions of the fields. At the time of the visit of the judges to the farm, the crops had an excellent appearance, and we believe they considered all the crops on the holding as the best they had seen in the course of their visitation. The previous year's turnip break was all under barley and spring wheat, and the crop after lea was oats. The green crop was turnips, with an acre or two of potatoes for home use. There is very little hay made on the farm the first and second made on the farm, the first and second year's grass being eaten by cattle and the third year's grass generally eaten by sheep.

The general style and condition of the stock on the farm was an element in the awarding of the prizes, to which much atten-

tion was given. There are a dozen horses on the possession. The working stock is three regular pairs, and the fourth pair made upof a breeding mare and young horse, which are generally taken to harness at three years of age. A foal is generally got every year. About 100 head of cattle are on the farm, and the stock is partly breeding and partly feeding. There is a general stock of 14 or 15 cross cows, for breeding from. About a half of the animals bred on the farm are

reared and sold fat at two years old, only the pest of the heifers are kept as breeders. In the spring months a lot of 40 stots rising two years are brought in, and put on the pastures, When the judges visited the farm, they saw a feeding stock of forty-five bullocks grazing in a single field of about forty acres. The pasture was particularly rich, the lot made great progress, part of them are now tied up, and will be ripe to sell off about the month of December. There is also a Leicester breeding stock upon the farm. As we have said, the third year's grass is generally eaten off by sheep which benefit the succeeding corn crop. The Corskellie Leicester have corn crop. The Corskellie Leicester have been well known as prize winners at the local exhibitions. Tups are added periodically from southern flocks. Part of the stock are bred pure, and the tups partly sold off as lambs and partly as shearings. For two or three years past Oxford Down tups have been amongst the cast ewes, and the produce has been sold off for feeding. A small Cheviot stock is also on the farm. About six score ewes are brought in yearly from the High-A crop of halfbred lambs are taken from them and sold in August and the mothers being fattened are sold to the butcher.

ORDENS.-Mr. George Shand, tenant of the farm of Ordens, was awarded the second prize of £10. Between the time of the removal of the crop from the ground last autumn and the laying down of the crop this spring, there were formed over 10,000 yards of drains. The leading drains were 3½ feet deep, and the side drains 3 feet deep, the whole being laid with pipes. The cost of that work was £111. The steading is conveniently situated for the working of the form. It was built over twenty years ago. The north side or back of the square runs parallel to the turnpike road, and the dwelling house is a little to the south thereof. The steading is in the form of a square, which is entered from the south. The west wing of the steading is about 78 feet in length. It is a double building, two roofs riseing from the centre wall, having sheds for six carts, and a boil-house opening to the outer carts, and a boil-nouse opening to the outer or west side; and opening into the square a fyre for the cattle, a stable for seven horses, a hay-house, and a servants' sleeping apartment. The north wing has a length of about 120 for the stable of the stabl feet, and contains two double byers, each for eight cattle with a turnip shed between them; and a double byre for ten calves. The angle of the north and west wings is occupied with a turnip shed. The east wing has a length of about 90, feet and contains a double byre for eight cattle, a single byre for eleven cows, a byre for eight or nine calves, and a stable for a pair of horses. The south side of the square is enclosed with a detached building, containing poultry house and other accomodation, and a byre for eight calves.
At the south-corner of the square there is also a detached milk-house, and between it and the other buildings a water reservoir. There is a causeway pavement in front of the byres and stables, and the liquid is partly applied to form a compost for top-dressing. The side walls of the square are only seven feet high, but the arrangements under the new lease include the heightening of the walls by about a couple of feet, and the reroofing of the whole square. The farm is entirely enclosed, and the work was done mostly by the tenant. Trenche were cast, and rickle dykes built upon the top of the excavated material. The stones were obtained from the fields in the course of trenching operations, to which a considerble breadth of the farm was subjected during the last lease. The extent of the farm is 276 acres, and the whole is arable. It is wrought on the six-years' rotation, the course of cropping, three grasses, two white crops, and a green crop. The farm is equally divided into shifts of 46 acres. The one-half of the whole possession is always in grass, a sixth part in oats, after lea, a sixth in turnips, and a sixth in barley and oats, but principally the former on clean land. The soil is light, with a hard retentive bottom. The manure is applied when the land is backers are former. when the land is broken up for turnips, with the view of affecting the soil during the six years of the shift. The turnip break gets per acre 20 square yards farm manure, 8 bushels mixed bones, and two hundred weight of other manures, principally superphsphates. In addition the corn and grass crops are annually top dressed, the manure in the former case being put down when the seed is sown. Last year, for instance, £40 were spent on extraneous manures for the corn and grass. There are eleven horses of various ages. The

farm is wrought with three ploughs, and there is generally a fourth pair of horses for driving turnips and other extra work.
One foal is generally got annually. The cattle are a breeding stock, and the farm carries a hundred head. The principle upon which the stock is kept is to have 25 animals of four classes, namely cows, calves, one-year-olds, and two-year-olds. There are generally, however, one or two more than 25 cows, to however, one of two more than 25 colves meet exigencies, as last year, when 28 calves were dropped. The cows were partly pure Shorthorn, and partly crosses with Shorthorn type, and high class bulls sreused. The breeders are kept up from the best of the heifers. The calves generally suckle their dams. They are kept through two grass seasons, and sold off when rising three years, either in December or in the spring months. The stock are of a very high character for the size and quality of the three years, either in December or in the spring months. The stock are of a very high character for the size and quality of the three years, either in December or in the spring months. The stock are of a very horses, the first prize machine cut 2 acres of this stout crop in 65 minutes, and several this stout crop in 65 minutes, and several this stout crop in 65 minutes, and several three years, either in December or in the spring months. farm. In the entering upon a new lease, the proprietor offers to advance money for improvements in land and buildings to the extent of £500. This amount has already been expended, but the tenant has not applied for the capital from the proprietor.—Mark Lane Express.

TRIAL OF REAPING MACHINES IN FRANCE A correspondent of an English agricul tural journal gives the following account of the great trial of reaping machines at Sois sons, in France, at which there were some American competitors. As a description of how these affairs are managed in that country, and the care which is taken to make the trials efficient tests of the machines, it is

instructive. "Concours regional' or district shows, are of annual occurrence throughout France, being supported and mostly managed by Government. Of late several successful attempts have been made to make these concours international, and as the Government is ready to bear the expense, they are likely to increase in number so long as exhibitors are willing to take the trouble to attend and incur the necessary expenditures. Some of our leading English makers of reaping machines, thinking it about time to make a stand, determined to leave all other shows to agents, and to put in an appearance at Soissons only, hence these trials were looked forward to with more than ordinary interest.

"Upon arriving at Soissons, the day before the competition, we drove to the farm selected for the trial, and certainly no better place could have been selected—370 acres of wheat in two fields. The one chosen to commence operations upon, and which proved sufficient, contained about 70 hectares (175 acres); the wheat was strong, tall and a good deal laid in places; we estimated the yield at quite 5 qr. an acre. M. Des boves is a fine specimen of a French farmer, young, active and intelligent. Not a weed was to be seen either in the corn or the beet root, and the house and homestead was large, commodious, and such as most English farmers would covet. A visit to this farm and others we could name, would convince British agriculturists that a thorough knowledge of husbandry is not confined to

Great Britain. "To return, however, to the reaping mavery different manner to what we are accustomed to see in England. On the present occasion there were, in the first place, five commissioners; then two juries, one me-chanical, the other practical, 12 members on each. To assist these 29 gentlemen, 20 commissioners of surveillance were appoint-As they came up on the ground in a body, the thought crossed our minds that such a force was altogether out of proportion to the work to be done, and that the whole thing would break down from its own weight. In this, however, we were agreeably disappointed; everything proceeded in the most orderly and regular manner. The competing machines, 19 in number, were drawn up in line outside the Soissons Railway Goods Station. Here the mechanical section of the jury made a minute inspection of each machine (each exhibitor previously had had to furnish particulars of the mechanical details of his machine and drawings), the exhibitors explaining their merits and taking to pieces any portion the jury desired. After completing the inspection and taking copious notes (one juror being appointed for this purpose), lots were drawn and the machines despatched to the field, plots of about 21 agest, already, numbered plots of about 21 acres, already numbered, being devoted to each for the first trial.

"Before the machines started a commissioner was appointed to each, whose duty it was to take the time in cutting down the plot, to note every stoppage and the cause, to prevent interference from any but the exhibitor, and to report to the jury.

"Mounted soldiers and soldiers on foot in abundance were emyloyed to keep the course clear, and to maintain order, which they did well and politely. The mechanical jury and the practical jury appeared to keep apart, but throughout the two days the trials lasted they were constantly passing from machine to machine in regular order, to that the exhibitors seemed to be kept in perpetual motion.

"The horses employed were short-legged, light, but powerful animals, about 15.2 to machines did the same work in about the same time. The thought occurred to us as we saw them walking away without 'turning a hair,' surely at our Royal meetings we ought to have a class for agricultural horses

under 16 hands.
"By the official catalogue we send herewith, it will be seen that nine machines were entered by English makers, five from America, and an equal number of French-made machines. All were self-delivery. The French don't take to any but automatic reapers. The readers of the Agricultural Gazette are so well acquainted with the working of reaping machines, that we do not think it would be interesting to enter into details of the contest, nor to catalogue the mishaps through encounters with boulders and big stones put down as landmarks—Suffice it to say that Messrs. Hornsby (who entered four) worked three machines, Messrs. Samuelson two, and Messrs. Howard two; each had their own men over, as had the two competitors, W. A. Wood and Mr. Osborne. The other American com-Mr. Osborne. The other American competitor, Johnstone, had his machines upon the ground, but withdrew from the conte It was rumored that he was afraid of the big laid crops. All the machines made good work, and the worst, ten years ago, would have been deemed perfect. The manner, however, in which Howard's 'International' went through the heavy and the laid portion; marked it out for the front rank.— At the final trial the selected machines were ordered to follow each other, in order to give the jury a better opportunity of examining the relative quality of the sheafing; and an excellent plan it is, for there the sheaves laid side by side, and none could say the crop was not uniform. At the close of the trials the two sections of the jury and the commissioners retired to a tent, and after an hour or two spent in conference, the awards were made known, literally with a flourish of trumpets, a military band having been engaged for the spectacle, and a large assembly of ladies and gentlemen being

gathered in the spacious tent.

"Mr. James Howard, of Bedford, was the first to be called upon by the president, who handed him, after a highly complimentary address, and amidst much cheering, the grand prize of honor, a gold medal and 1000 fr., for the best reaping machine from any country." gathered in the spacious tent.

any country. "Mr. Osborne, who was present from burn, America, next stepped forward and was loudly cheered. He received a gold medal and 800 fr.; and Mr. Pidgeon, of Banbury, of the firm of Samuelson & Co., who was also heartily cheered, received a silver medal and 600 fr. The French makers following, received a private for the best are following, received prizes for the best machines made in France, and after the ceremony the drivers assembled, and were rewarded with 20 fr. each.

"On our return journey we were struck with the diligence and promptness of the French farmers; land that we had passed a few days before uncleared of its crop, was not only cleared but broken up and manured for next year's crop. The wheat crop, throughout France is unquestionably good, and is estimated to be worth about £15,000.000 more than the 1873 crop; should this estimate prove correct, France may be able before part among the serial provess. before next summer to send us some £4,000,-000 worth of wheat and flour."

To Build a Rat-Proof Cris. - Let the To Build a RAT-Roof Chils. The blocks at the upper end be shaped sugar loaf fashion—put on each block a tin pan infashion—the sills on the pans. If there verted, then the sills on the pans. If there are no stables or sheds attached to the house for the rats to climb, that crib is rat-proof.

We have many bird destroying animals in Canada. In the older settled parts of the country they are becoming extinct; still we have too many foxes, skunks and weasels among us yet for our profit. The wild cat is now rarely to beheard of. The animal we now show taking its prey, the fisher, is still a greater rarety; a friend of ours in this city, however, secured one in Muskoka, last year. They are something of the nature of the weasel, but about as large as a cat. Perhaps they may be more cunning and steathy. You might easily imagine the sudden spring at the poor birds, that are perched in a high tree, for their night's rest. The heavy fall to the ground is, alone, sufficient to kill the bird; while

comes richer. But let us come home to the practical. What is the effect on our dairy land? It is getting better. The longer it has been devoted to this interest the richer it becomes. Here then is additional evidence, taking a general view of it. But dairy land is made rich by top-dressing, it will be said. This is true. And in this way it is continued unbroken for many years if not permanently. But then this is no more than nature's own way: she top-dresses annually her grass lands—lets the crop rot down to nourish the succeeding crop; and so on till she has a deep, rich soil, sometimes many feet in depth, as in our muck beds, where a coarser and ranker vegetation accumulates.
We thus have an answer to the heading

of timothy per acre being realized, for many years, the last crop as good as the best. The land was the ordinary drift soil, cropped with grain principally, for many years. Without this retention of the aftergrowth, a seeding (with clover or timothy) would usually last four or five years, and then require replowing.

Here is a clear case (it was done on our

own farm) of the principle of self manuring, natures way. It was often objected to leave the fine after-growth for the frost and the snow to rot down, when it would afford such excellent fall feed. But it was this very course that continued the meadow, and kept up the yield full and profitable. The coat of

when it was first cleared or at any subsequent time.

There was no fertilizers used save some manure one year on spots that needed it, and every other year a dressing of plaster, a bushel to the acre. The whole of the after-growth yearly was retained; not a hoof was permitted to touch the land.

This is encouraging. Farmers are beginning to get an inkling of the benefit of protecting their grass lands and enriching them by retaining part of the crop, or rather by not denuding their land so much. Here an annual crop was taken and nothing or little given back to the soil. Land may thus be made self-sustaining. Grass, instead of imgrass protected the roots. It afforded pabulum, and that of the right kind—simply a



A FISHER CAPTURING ITS PREY.

he fisher, being of a more supple nature, ares as little or less than a cat for the all, more especially when it secures such a rize as it now securely holds in its mouth

The skin of the fisher is very valuable

DOES GRASS IMPROVE THE SOIL? We hear it asked sometimes whether grass mproves the land. That it "runs out" is pmmonly observed. The subject is a very steresting one, and not difficult of solution. here are meadows in England centuries old. he prairies and savannas are older stillow old is beyond the memory or researches man. These are indeed permanent grass

Here is pretty clear evidence that the land, stead of becoming poorer or exhausted, be-

of our article—grass does not impoverish the soil. Thus if its growth is returned to it, or was there in the spring, close to the ground be deterioration, and then only of the yield, its equivalent is given, the former in the wild state, the other under treatment. But this former or wild mode can be employed in a modified sense by the dairyman, and with success. The principle of selfenrichment, as with the wild lands, is of course a matter of degree. How much less an annual growth would sustain the prairies it is perhaps not so easy to determine. Half the yield might have done it, but it would have been done at a corresponding expense of the richness of the land. Luckily, we have some dates for estimates.

Where part of the crop is yearly retained to the land no greater than the usual after-growth, we have found it sufficient to continue the yield unimpared, about two tens

and in immediate contact with the roots.

This did not hurt the growth, but added itself to the regular crop—adding about a third in this case. But the root increase, forming a dense sod that excluded weeds and afforded additional protection against the afforded additional protection against the frost, that is, the decayed root matter or humus did in connection with the living roots.

When this sod was turned down, which it was after thirteen years' growth, it proved to be a heavy one, leaving the surface mellow and in good condition for the seed bed. The crop of corn, oats and potatoes which followed was the best crop which the land had ever produced. This by considerable. This tesand not, apparently, of the soil.

We have it not to remember that we ever knew of the run-out grass field to be poorer than when it was seeded down, and generally better.

Although the crops noted above were pretty uniform for the thirteen years the land was mown, not increasing in yield, yet the soil was increasing in wealth all the while; and though not suited to an increased crop of grass-perhaps because some of the constituents were not sufficiently abundant

yet growing a heavy yield of grain.

We are thus, by leaving the aftergrowth, constantly enriching our land for immediate and subsuquent benefit. Remember there is timony was that the land was richer than benefit at once and all through the operation.

Dec., 1874

There is no expense speaking of, and or ing to secure the cr ing the soil, no s manure, no expergood crops with desoil.—Indiana Far

FIFTY BUSHELS

The average y varies largely in o States, acording ports, the averagenine bushels. In to about thirteen counts of crops mapproximations to the average yield thirteen bushels, t acres which yield bushels, as is kno the grain that a g from twenty to ty bushels of beauti approximate acco reveals certain im the cultivation which should are a careful considera sustained both b soil and by the Go of such meagre of not only renders to pendent, pecuniar ment of the Gover It is an impor than one respect, system of managhim only, six, n wheat per acre; as harrowing the gro and cutting the cr

about as great eight bushels per forty and even fift feat state of fertil bushels of seed w duct may be eigh

not pay to attempt costly rate. The large portion of the can safely be co fifty bushels per a tilled as it should cultivate it. It when the pioneer moved the forests even sixty bush the acre. Even a merous accounts of the actual yie the product is re fifty, some sixty Here then, is a furnishes an instr cultivation of w of Western New down all the tim ground, let the to and dry when th by a huge bonfir harrowed (not half bushel of ordinary yield w clean and plump be spoken of at rate harvest is fit or thistle or pa growing grain. land now cover cleaned in the sa put in about the first to the tenth etor can rely on t choice grain with provided he sov furnishes a correct producing capac Americans are s fertile ground t badly impoverishment. When a and stick of fire being burned to of timber, the fe to develop is carr after crop is grov turning one atom aid in maintaini the ground. It i cess to renovate

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There is no expense for the production worth speaking of, and only the expense of harvest-ing to secure the crop—no plowing or working the soil, no saving and putting on of manure, no expense of seed, but yearly good crops with decided improvement of the soil.—Indiana Farmer.

FIFTY BUSHELS OF WHEAT TO THE ACRE.

The average yield of wheat per acre varies largely in different States. In some States, according to the statistical reports, the average yield amounts to only nine bushels. In New Jersey it amounts to about thirteen. Of course such accounts of crops must be considered only as approximations to the actual product. If the average yield per acre be represented by thirteen bushels, there must be hundreds of acres which yield only four, five or six bushels, as is known by actual weight of the grain that a great many farmers raise from twenty to twenty five and even thirty bushels of beautiful grain per acre. Such approximate accounts of the wheat crop reveals certain impressive facts concerning the cultivation of this valuable cereal, which should arouse tillers of the soil to a careful consideration of the immense loss sustained both by the proprietors of the soil and by the Government in consequence of such meagre crops. Bountiful harvests not only renders tillers of the soil more independent, pecuniarly, but they tend to argument of the Government.

It is an impoverishing policy, in more than one respect, for a farmer to pursue that system of management which will return him only, six, nine or twelve bushels of wheat per acre; as the expense of ploughing harrowing the ground, putting in the seed and cutting the crop with the reaper will be about as great when the yield is only eight bushels per acre as when the product is forty and even fifty bushels. Land in a perfeet state of fertility will require about two bushels of seed wheat per acre. The product may be eight or ten bushels. It will not pay to attempt to raise wheat at such a costly rate. The productive capacity of a large portion of the tillable soil of America can safely be computed at forty or even fifty bushels per acre, provided the land is tilled as it should be, and as it will pay to cultivate it. It was of common occurence when the pioneers of our country first removed the forests, to hear of forty, fifty and even sixty bushels of beautiful wheat to the acre. Even at the present period numerous accounts are rendered every season of the actual yield of large fields in which the product is represented by forty, some fifty, some sixty and a few more than sixty Here then, is an impressive fact, which furnishes an instructive commentery on the cultivation of wheat. The pioneer farmer of Western New York, was wont to cut down all the timber on the given area of ground, let the trees, brush and all remain for a few weeks until the weather was hot and dry when the ground would be cleared by a huge bonfire, the surface thoroughly harrowed (not ploughed), and one and a half bushel of seed wheat put in. An ordinary yield would be thirty bushels of clean and plump grain. A fair crop would be spoken of at forty bushels, and a first rate harvest is fifty bushels without a weed or thistle or particle of chess among the growing grain. If an acre of fair wheat-land now covered with heavy timber be cleaned in the same manner and seed wheat put in about the first of September (from the first to the tenth at the North), the proprietor can rely on the yield of forty bushels of choice grain with almost absolute certainty. provided he sows choice seed. This fact furnishes a correct idea of the natural wheatproducing capacity of the soil. But most Americans are so grasping that the most fertile ground that can be found is soon badly impoverished by injudicious manage-ment. When a forest is cleared, every tree and stick of firewood is removed instead of being burned to ashes. In this single crop of timber, the fertility it has required ages to develop is carried off the field. Then crop after crop is grown and removed without returning one atom of fertilizing material to aid in maintaining the original fertility of the ground. It is a difficult and tedious proto renovate a field that has been completely impoverished by injudicious manage-But if the precaution were observed to maintain the fertility of a rich ground by With the confident assurance that, in proreturning a fair equivalent in the form of portion as he supplies them, will be the some kind of fertilizing material every time measure of his success.

a crop is removed, there would be no difficulty in raising from thirty to fifty bushels of superb wheat from every acre that is adapted to the production of this sort of grain.—N. Y.

Garden, Orchard and Lorest.

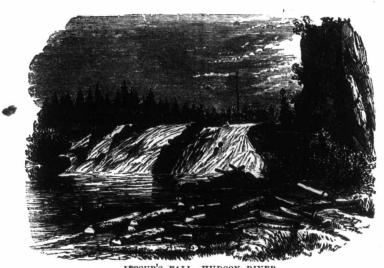
PRUNING FRUIT TREES.

Dr. H. Clagget, in a communication to the Rural World of the respective merits of high

The leaves require fresh air and sunlight, and perform their functions perfectly or im-perfectly, as those elements are adequately, If, then, we would meet the requirements of nature, we must adapt our mode of pruning to the climate in the natural supply of these elements. In the humid climate, and consequently deficient power of sunlight, in England, very open heads are required; but it will not do in this country to run into the opposite extreme. We should sooner expect to develop, children into healthy, robust men or women, crowded together in an imperfect ventilation and and low pruning, remarks as follows:

The practice of pruning down low heads and close planting is, I believe, of comparatively recent date—has hadand still may have orchard.

The imperitor venduation and provide that a poorly lighted room, than expect to develope healthy, long lived, fine-bearing fruit trees in a closely-planted, low headed orchard.



JESSUP'S FALL, HUDSON RIVER.

many admirers. But with careful observating, experienced fruit growers, it has had its day—run into the ground, and the sooner it is buried out of sight the better for the success of fruit growing. For it is progress backwards, downwards and in conflict with the natural laws of tree and fruit develop-

Every tree and plant we cultivate grows and developes according to natural laws, and requires for its high development, certain conditions. To obtain the best results we must seek to find out the best conditious and work in harmony with and aid nature in supplying them.

Every tree and fruit are made up of elements col'ected from the earth and air. The NOTES FROM THE MARKET GARDEN.

The growing season is nearly over, though I see the late cabbage, turnips and celery is still growing, and the celery is making a splendid growth within the last few days.

The season has been a favorable one, with the exception of the drought. Well, says whole army of our readers, is not the drough sufficient to ruin the season's crops? Well yes! I suppose it is, unless we cultivate bet ter than most of us do. But I am satisfied that if we cultivate our land as we might and ought to do, it is very rare that we could not counteract the effect of such droughts as we have in the State, sufficiently to give us at least fair crops,



THE GREAT BOOM, HUDSON RIVER.

elements collected from the earth are collected by the roots and pass through the stem and branches into the leaves, where they combine with the elements from the air, from which the common vitilized elements pass to the development of the tree and fruit. The roots and leaves, then, being the chief working organs of the tree we should see to it that both these classes of organs are supplied with the conditions best adapted to the perfect performance of their functions.

The important inquiry, then, with every fruit grower as well as cultivator of any plant should be—what are those best conditions?

I would rather have a very dry season, than a very wet one. A dry season is generally a hot one. A wet one, upon the contrary, is generally a cool one.

If land is thoroughly enriched and well cultivated, the crops will endure a great deal of dry weather before they will give up and The roots will run deep and in every direction for moisture, and in so doing they find plenty of plant food to nourish them and as soon as the rain comes, they are ready to get the full benefit of it, while the half plowed land, and the half cultivated crops, are in a condition to get the full benefit of nothing. In the mean time the discouraged owner places the blame in every conceivable place, except just where it belongs.

Upon the other hand, in a very wet season the roots keep near the surface of the soil, and as a matter of course do not come in contact with near the amount of plant food that they do in a dry soil.

In addition to this if we have even a very short season of dry weather, when crops are in such a condition, it makes them suffer much more than if the season had been rather a dry one from the spring. I bave noticed this fact repeatedly in my experience, and hence another season will work for complete

and thorough drainage.

Suppose I give you a few short papers upon the practical results, and the lessons of the last season as I have learned them?-By J. M. Smith, in W. Farmer.

Views on the Hudson River.

Continued.

We give here two scenes lower down on the Hudson than those given last month. Jessup's Great Fall's are just below the confluence of the Hudson and Scandagoa rivers. The following description is from the pen of B. J. Losing:

We followed a path down the margin of the roaring stream some distance, and returning, took a rough road which led to the toot of the Great Fall. From Jessup's Landing to this point, a distance of more than a mile, the river descends about one hundred and twenty feet, in some places rushing wildly through rocky gorges from eight to one hundred feet in depth.

"The perpendicular fall is seventy-five feet in depth. From its course back some distance the stream was checked with thousands of logs that had come down from the wilderness and lodged there. in a mass in every conceivable position, to the depth of many feet, and so filled the river as to form a safe though rough bridge for us to cross.'

Below these falls, and 2½ miles above Glen's Falls, are the State Dam and Great

The dam was constructed in 1845, to furnish water for the feeder of the canal which connects the Hudson River and Lake Champlain. It is 1,600 feet in length. About two miles above the dyke is the Great Boom, thrown across the river for the purpose of catching all the logs that come floating from above. It is made of heavy, hewn timbers, four of them bolted together raft-wise. The ends of the groups are connected by chains, which work over friction rollers, to allow the boom to accommodate itself to the motion of the water. Each end of the boom is secured to a heavy abutment by chains; and above it are strong triangular structures to break the ice, to serve as anchors for the boom, and to operate as shields to prevent the logs striking the boom with the full speed of the current. At times, immense numbers of logs collect above this boom, filling the river for two or three miles. In the spring of 1859 at least half a million of logs were collected there, ready to be taken into small side booms, assorted by the owners according to their private marks, and sent down to Glen's Falls, Sandy Hill or Fort Edward, to be sawed into boards at the former places, or made into rafts at the latter, for a voyage down the river. Heavy rains and melting snows filled the river to over-dowing. The great boom snapped asunder, and the half million of logs went rushing down the stream, defying every barrier. The country below was flooded by the swollen river, and thousands of the logs scattered over the valley of the Hudson from Fort Edward to Troy.

A correspondent of the Country Gentleman says that a way to banish rats is, plant asphodel near the barn or stable wehre th y are, or put some in their holes. Rats have such an aversion for this plant that they will quit the premises where it is. If they are in drains or in cellins, scatter sulphate of iron (copperas) in their runs. The copperas should not be dissolved. It is our best and cheapest disenfectant. The sulphuric acid burns their feet, and they leave in a short time, without dying. they leave in a short time, without dying. This will be appreciated by every housekeeper that has had to endu e the stench of a dead rat.

A successful importation of live cattle from the River Platte, in South America, was lately made into Figland, Near a hundred head of oxen were hipped upon the steamer and taken from the Argentine Confede ation to London in twenty four days. On their arival they were in such good condition that after a week's rest and feed, they were sold for \$80 each, \$45 in advance of their cost in South America.



NNIE MAY'S

DEPARTMENT.

Cookery.

Christmas is com-

ming, so we must be looking about for puddings and pies and other holiday cheer, so I will give a few receipts of that kind this month. There is receipts of that kind this month. one thing which I wish particularly to draw your attention to and that is

MIRTH AT MEAL TIME.

Everybody should plan to have pleasant conversation at the table, just as they have good food. A little story-telling, a little reading, it may be of humorous things, anecdotes, etc., will often stimulate the joyous elements of the mind and cause it to act vigorously. Try and avoid going to the table all tired out. Let all troublesome topics be avoided. Don't scold domestics. Don't discipline children. Think and say something pleasant. Cultivate mirth, and laugh when anything with it said. If not laugh when anything witty is said. If possible, never eat alone. Invite a friend of whom you are fond, and try and have a good time. Friendship and friendly intercourse at the table whets the appetite and promotes the flow of animal spirits.

PUDDINGS.

SUET.—Half a pound of flour, 11b. beef suet chopped very small, one teaspoonful of salt; mix these with just sufficient milk, or water, to keep them together. Boil it two hours and a half in a basin or cloth. Half a pound of stoned raisins may be added.

SWEET SAUCE .- Half a pint of nice brown sugar, a piece of butter the size of a small egg: beat with a spoon until it becomes froth; stir boiling water into it until it becomes the right consistency, then add half a glass of wine and a little grated nutmeg. Keep it

CUSTARD APPLE.—Pare and core 12 sour apples; stir a custard and pour it on them and bake.

MARLBOROUGH. - Stew nine tart apples until tender, then pass them through a seive; 8 oz. butter; grate the outside of two lemons; squeeze the juice of one lemon; 6 table-spoonsful water, 1 lb. powdered sugar, 9 eggs. Stir well together.

YORKSHIRE.—Two eggs in a pint of milk, a little salt, and flour enough to make it then varnish again. Bake quick, in a long tin. butter and sugar mixed.

MINCE PIE.

One pound finely-chopped roast beef; half pound of suet do; half peck apples do; one pound raisins seeded; half pound cleaned currants; one nutmeg; two tablespoonfuls ground cinnamon; one do. ground cloves; some mace; one pound sugar; and sweet cider to moisten the whole. Mix and let it stand all night; when using add two ounces citron cut in very thin strips.

PLAIN MINCE PIE WITHOUT MEAT.—One pound and a half crackers; three spoonsful melted butter; half a cup of vinegar; one cup molasses; raisins and spice to your taste, Melt the butter and vinegar, then add the rest and fill your paste; cover as usual.

HOW TO KEEP MEAT.

Meat is much better for family use when at least one week old in cold weather. The English method for keeping meat for some time has great merit. Experts say, hang up a quarter of meat with the cut side up, being the reverse of the usual way, by the leg, and the juice will remain in the meat, and not run to the cut, and dry up by evaporation. It is worth a trial, and when made will be continued.

SAUSAGE-MEAT. — The proportions for sausage-meat are, a pound of lean fresh veal, and a pound of lean fresh pork, a clove and a piece of nutmeg. Chop the meat fine, or tribution the skilful grisette anon supplies

run it through a chopping-machine; grate a little nutmeg and clove; also a small piece of cinnamon, if liked; mix them, and also salt and pepper, with the meat: two yolks of eggs may also be added, if handy. You then know with what kind of meat your sausage is made. More veal and less pork may be used, and vice versa, according to

#### Minnie May's Scrap Book.

TO KEEP CELLARS FROM FREEZINIG. - A friend of ours, who has tried it, says he prevents frost in his cellar by pasting the walls and the ceiling over with four or five thickness of newspapers, a curtain of the same material being also pasted over the small low windows at the top of the cellar. The papers were pasted to the bare joists overhead, leaving an air space between them and the floor. He reports that the paper carried the roots through last winter, though the cellar was left unbanked, and he is confident they have made the cellar frost-proof. whatever paper is employed, it will be necessary to sweep down the walls thoroughly, and to use a very strong size to hold the paper to the stones. It is not necessary to press the depressions of the wall; every air space beneath it is an additional defence against the cold.

BURNING CHIMNEY.—If it be desired to extinguish the fire in a chimney which has been lighted by a fire in the fireplace, shut all the doors of the apartment, so as to prevent any current of air up the chimney, and throw a few handfuls of common salt upon the fire, which will immediately extinguish the same. The philosophy of this is that, in the process of burning the salt, muriatic acid gas is evolved, which is a prompt extinguisher of fire.

Home Made Candles.—Many of our readers in the country will find that candles can be made economically, by mixing a little melted beeswax with the tallow to give durability to the candle, and to prevent its "running." The light from a tallow candle can be improved in clearness and brilliancy by using small wicks which have been dipped in spirits of terpentine and thoroughly

Roasted coffee loses its strength if left uncovered. If you have no recortacle purposely for keeping coffee, then keep it in a tin fruit can with the lid on. This is a very good substitute.

TRANSFERRING PICTURES TO GLASS. Coat the glass with varnish and balsam of fir in turpentine, then press the engraving on smoothly and evenly, being careful to remove all air bubbles. Let it stand for 24 hours, then dampen the back sufficiently to allow the paper to be rubbed off by the forefinger, rubbing it till a mere film is left on the glass,

SHEEPS' HEARTS ROASTED.

Having washed the hearts, stuff each with an onion parboiled and then minced fine, two tablespoonsful of bread-crumbs, half a teaspoonful of chopped or dried sage, and sufficient black pepper and salt to season highly. Press the stuffing well into the hearts, and, if necessary, fasten a little muslin over the top to keep it in. Whilst roasting, baste frequently. They may alse be baked, but care must be taken not to let them get dry Any heart that may be left is excellent hashed.

THE HOUSEHOLD -THE BEAUTY, UTILITY AND THE ACCEPTABILITY OF SOUP MAKING.

There is no way in which the comfortable abundance of the table may be better insured, while at the same time a strict eye is kept upon economical expenditure of means, than an almost daily addition of soup to the family dinner. It is only when concocted by contemptuous sobriquet of "slops," so often applied to it.

It is surprising from what a seanty allotment of material a dainty dish of soup may be supplied. Let a roast of beef be consum ed to the very bone, a turkey or pair of fowls deprived of every joint, yet, if the careas is put away, it furnishes at once the needed basis. The French understand this to perfeetion, and we read that in Parisian kitchens a closed vessel, containing "potage," is ever at the fireside awaiting any and every con-

from the surplus of other dishes in process

of preparation.

In the first place, observe always to lay your meat in the bottom of the pan or pot, cutting the meat up, or if a bone, cracking it well. A lump of butter adds richness, but is not necessary. Select such herbs and vegetables as you prefer, cut them up very small and lay over the meat, with a very little water and a cautiously small piece of salt. Cover the vessel with a close fitting lid and set it by a slow fire, this will draw out all the virtue of herbs and roots, giving the same a different flavor from what is imparted by putting the full quantity of water in at first. Turn the meat frequently. When the gravy produced is almost dried up, fill your pot with a sufficient quantity of water to make soup enough for your family. To a large shank-bone of beef three quarts or even one gallon is not too much to

When your soup is done, take it off the fire to cool, and skim thoroughly from grease. Put it on again and be sure not to dish it up unless boiling hot. Be careful to add salt and other high flavored condiments sparingly. Every table is supplied with a salt cellar and castors, so that a deficiency in these respects may be easily remedied; not so an over quantity. If other thickening than the vegetable used, is deemed advisable, brown the flour for all soups save chickens, veal and oyster soups.

MOULD ON BREAD.

Inquiries so frequently come to me regarding the nature of bread mould, that it may not be amiss to say a little here by way of explanation.

Moulds of all kinds, no matter where, when, or how they grow, are plants. They belong to the great series of flowerless plants, and to the group of Fungi. In common with many of the low forms of plant life, they consist principally of delicate white threads, which grow through and on the substance which affords them nourishment. Take for example a loaf of bread; when the mould first begins growth, it is by sending myriads of these white filiments through its substance; these threads absorb nourishment from the bread in much the same way that roots do theirs from the soil. After these have grown sufficiently, the fibres near or at the surface develop the "fruiting" threads which we know as the "blue or grass mould." Under the microscope this "blue mould" is seen to consist of thousands of minute colored threads standing projects. threads, standing upright, each of which bears at its summit a little mass of exceed ingly small globular bodies, which are the spores or reproducing bodies of the plants. If these spores happen to be blown upon bread or paste of any kind, they very soon begin the growth of the white threads first descending. The round of life of a mould plant, then, is this:-First the spore falls upon the bread, from this grows the mass of white thread (known technically as mycelium) and last from this grows the erect

threads which produce the spores again.

Mould grows best where the air moist, hence drying the air in the pantry is one of the steps in eradicating mouldiness. Strong sunshine seems inimical to the growth of moulds, so let in a good amount

of sunlight.

As the spores are produced in numbers almost beyond calculation, it is necessary to take some means to get rid of or to kill those which are to be found in every crack or corner of mould room. Opening the room and allowing a strong draft of wind to blow through will take out many of them; sulphur may be burned in the room, in this case the doors and windows must be closed so as to keep in the fumes for from ten to twelve hours; white-washing if thoroughly done, will prove effectual in most cases. It is not a good plan to paper pantries, as the surface of the finest wall paper is rough enough to entangle and lodge thousands of spores up-on every square foot of surface. One word more: will not every housewife remember that bread mould always grows first through the bread, and that the blue mould found on the surface is but the "fruiting." It helps matters then but little to cut off the visible mould on the surface, for the greater part of the mouldiness is always in and not on the loaf. Never attempt to use any part of the loaf within three or four inches of the external "fruiting" or blue mould.

What is the difference between pugilists and hatters?—The former make themselves felt, and the latter make felt themselves.

TOM'S COLUMN.

I think you got ento do for some time, so I will wait until I hear that you have been trying them before I

give you any more. I suppose you are all thinking about Christ mas presents these days. Let me whisper a word in your ar: Mr. Weld has a beautiful pricture as the proposition of the control of the cont word in your car: Mr. Wen has a construction word in your car: Mr. Wen has a construction word in your care. The Wanderer," which he is giving every old subscriber who sends in one new subscriber. Now, and girls here is your chance. I

you boys and girls, here is your chance. I have seen the picture, and think it splendid.

I have heard from Willie Rutherford, and W. E. Fiewelling, and James Andrew Squeezer, who wants to come into the family. All right; squeeze in, Andrew. And I have heard from Hattie Haviland, who finds that she also has a hole in her pocket, and Minnie Jarvis, who writes as follows:

Byron, Oct. 14th, 1874.

Dear Uncle Tom, -

I have neglected writing to you until now. To-day was Jacky's birthday, and he is three years old He wanted a birthday cake, so sister Hettie made him one, and I bought the candies.

Dear cousins, we have had Uncle Tom and Mrs. Uncle Tom-I do not know whether she is Minnie May or not but I rather think she is—and the little cousins out to see us. We had neither swing or croquet, as some of the other cousins offered him if he would come other cousins offered him if he wild come and see them, but we had a lot of good melons, and we enjoyed ourselves with them. We wild like to have him out again to go for chestnuts, and get his fingers full of burrs, as I do mine, and then we would have jolly fun picking them out. But I am getting sleepy, so good bye. Your loving niece,
MINNIE MAY JARVIS.

PUZZLES.

283. -- Very soft my first, Very hard my second; And my whole in sticks Rather sweet is reckoned.

284.—I am a pair, yet only one,
And generally found alone;
With mouth of brass and lungs of leather,
I can blow for hours together.

285.—My first is in vine but not in grape,
My second is in twine but not in tape; My third is in now but not in past My fourth is in slow but not in fast; My fifth is in rhyme but not in reason.
My sixth is in time but not in season. My whole is a flower.

286.—A Puzzle Inscription:

J. acka ndj
Illw E. N. Tupth eh illt oge
Tapa ilo fwa T. er Ja ckfe
Lldo wnan dbr Oke H. I. S. C row
Nan djil Lca met umbli
Nga F. T. E. R.

HIDDEN COLORS.

287.--What is this color Edward? These hot days Bob lacks strength. 289.—Hand me a pin Kitty quick.
290.—Cannot you and Dick agree Nelly?
291.—You will certainly break that knob Luella.

TRANSPOSITIONS.

292.—Transpose a thankless person into a mineral. 293.—Transpose what a man sat on into

what stung him. 294.—What word is that which is made shorter by adding a syllable to it?

295.—My first and my fifth are alike,
My second and fourth have one name,
My third is one-tenth of my first, And my whole will read two ways the sime.

no RB

Look out for prizes next month.

2 TOM'S

OLUMN.

hink you got engames last month for some time, so you have been g them before I you any more. I ose you are all ing about Christet me whisper a ld has a beautiful h—called 'The ng every old sub-subscriber. Now, your chance. I ink it splendid. Rutherford, and James Andrew e into the family.

Oct. 14th, 1874.

ew. And I have who finds that eket, and Minnie

o you until now. y, and he is three birthday cake, so and I bought the d Uncle Tom and

know whether she
I rather think she t to see us. et, as some of the lot of good melons, with them. t again to go for ers full of burrs, as uld have jolly fun am getting sleepy, niece, NNIE MAY JARVIS.

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OLORS. r Edward? Bob lacks strength. itty quick. Dick agree Nelly? aly break that knob

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fifth are alike, ourth have one name, tenth of my first,

vill read two ways the

ext month.

poured in.'

Two young ladies holding converse over a new dress—"And does it fit well?" asked one. "Fit! Yes, as if I had been melted and noursed in"

UNCLE TOM'S SCRAP BOOK.

Johnny asked his mother the meaning of "capital punishment." Being informed, he replied: "Oh, I thought it capital punishment when you shut me up in the pantry."

A lady meeting a girl who had lately left her service, inquired, "Well, Mary, where do you live now?" "Please, ma'am, I don't live now," replied the girl, "I am married."

"In London no man thinks of blacking his own boots," said a haughty Briton once to the late Mr. Lincoln, whom he f und polishing his calf-skin gaiters. "Whose boots does he black?" quietly responded Uncle Abe.

A youth who was taking an airing in the country tried to amuse himself by quizzing an old farmer about his bald head, but was extinguished by the old man, who solemnly remarked: "Young man, when my head gets as soft as yours I can raise hair to sell."

In a country town in Illinois a few evenings since, at a panorama of the Bible, a little eight-year older sat wrapped in admiration at the best scene until the picture of Jacob and Rebecca at the well appeared, when he looked up and said: "Pa, did you see that picture? I'll just bet five dollars they're Grangers."

A gentleman in Massachusetts, being threa A gentleman in massachusetts, being threa tened with a contagious disease, said to his little son, who, in an affectionate moot, wished to embrace him, "You mustn't bug me; you'll catch the scarlet fever." Willistanding back, looked in amazement upon his para (who, by the way, is a pattern of propriety), and quickly asked, "Why, papa, who did you hug?"

On a toombstone in South Caro'ina is the following beautiful tribute to departed worth: Here lies the body of Robert Gordin,

Mouth almighty, and teeth ackordin;
Stranger, tread lightly over this wonder,
If he opens his mouth you are gone, by
thunder?

"Why, Mr. B.." said a tall youth to a little person, who was in company with half a dozen huge men, "I protest y u are so small I did not see you before" "Very likely," replied the little gentleman, "I'm like a sixpence among six copper penni s, not readily pecived, but worth the whole of them."

"Won't you cut open a penny for me, pa-pa!" said a little girl, when she came home from school one day. "Cut open a penny! What do you want me to do hat for?" asked her father. "Cause," said the little girl, "our teacher says that in every penny there are four farthings, and I want to see them."

A young lady had been teaching the Cate-chism to her class in Sunday school, when one Sunday she said, "I think you must now chism to her class in Sunday school, when one Sunday she said, "I think you must now learn something about the collects." A few in her class looked up with wondering surprise, but one little girl, with a broad grin up on her face, said with great eagerness, "O, I know what they are! Mother says I used to have them awful bad when I was a baby."

A village shopkeeper, on entering his shop one morning, found his Robby attempting to throw all sorts of somersaults and kicking up as throw all sorts of somersaults and kicking up as great a rumpus as a seal in a tub. 'What are you about?" he inquired, looking astonished at the wild evolutions of the boy. "Obligin' Martha, sir," replied the almost exhausted youth. "She's writ me a letter, and at the bottom of the page says: 'Tura over and oblige,' and I've been going it for more'n half an hour."

Two Scotch worthies, rather fond of beer, Two Scotch worthies, rather fond of beer, retired from a regular house of call to a field, one fine evening, and sat down on a bench to enjoy their favorite beverage alone, having previously supplied themselves with a fair stock. After imbibing it pretty freely they both fell asleep. About midnight one of them got up for the purpose of retiring, but not knowing his whereabouts very well, wandered about for a while and then stumbled upon his about for a while and then stumbled upon his companion, whom he awoke, remarking, "Surely this is an awful size of a room, for I canna find the door, and I've been looking for it more than half an hour." "I ken naething about the size of the room," hiccuped his companion, "but one thing I see," looking (This must not be!"

up, "it has a tremendous high ceilin'." That surely must be the famous hotel in Midland city, of which we have heard so much.

BETTER WHISTLE THAN WHINF.

As I was taking a walk early in September, I noticed two little boys on their way to school. The smaller stumbled and fell, and though he was not much hurt, he began to whine in a babyish way—n t a regular, roaring boy-cry, as though he was helf killed—but a little,

cross whine.
'I he older bey took his hand in a kind and fatherly way, and said:
"Oh, never mind, Jemmy, don't whine; it is a great deal better to whistle."
And he began in the merriest way a cheerful hovewhistle. ful boy-whistle.

Jemmy tried to join in the whistle. Jemmy tried to Join in the whistle.
"I can't whistle as nice as you, Charlie,"
said he, "my lips won't pucker up good."
"Oh, that is because you have not got all
the whine out yet," said Charlie; "but you
try a minute, and the whistle will drive the
whine away"

Before I could say a word or lift a finger to stop him, he rapidly glided past me to the table on which the lamp stood. With a nimbleness which rooted me to the spot with apprehension, he who pped off the shade, then the old burner. In a moment the lamp was a burner. In a moment the lamp was a

ruin.
"It is a mercy of Providence, sir, that I happened to call."
"Stop!" I cried.
"Replace everything as it was, instantly."

"The number of cases of premature blind

ness," he calmly proceeded, "that I have had the gratification of preventing, makes my labor a most pleasant one."

Thinking he might be deaf, I bawled, "I don't want your burner; I won't have it; take it off," for he was lightly twirling the new

one in its place.

"There, sir, you will feel thankful to me as long as you live! the only thing that troubles me in the matter is, I know I am ruining the spectacle makers."
"Do you hear!" I asked. "I shall not pay

try a minute, and the whistle will drive the whine away."

So he did, and the last I saw or heard of the little fellows they were whistling away as earnestly as though that was the chief end of life.

Bear Hunting in Russia.

To us who have so little acquaintance with Russia and its inhabitants, it appears to be a wild, uncivilized country, and the accompanying engraving would lead to the same conclusion; but when we come to consider the size and population of Russia, we can understand that there may be very advanced civilization, as well as wild country.

The accompanying sketch depicts a bear hunt in one of their immense forests. Bruin,

ing infirmity that Annie (my wife) has, I forgot to mention before. She is very and although she can hear my voice, to she is accustomed, in its ordinary tone you will be obliged to speak extremely order to be heard. I am sorry for it."

Aunt Mary, in the goodness of her protested that she rather liked speaking and to do so would afford her great ple.

The carriage drove up on the steps wife in the window was John N—,

face as utterly solemn as if he had buri "I am delighted to see you," shricke wife, and the policeman on the opposite walk started, and my aunt nearly fell

the steps.

"Kiss me, my dear," bawled my aur. the windows shook as with the fever and I looked at the window John had peared. Human nature could stand longer. I poked my head into the contraction of the strong convulsions.

and went into strong convulsions.
When I entered the perfor my wi
helping Aunt Mary to take off her
cape; and there sat John with his face
in his handkerchief

in his handkerchief
Suddenly... Did you have a pleasa
ney?" went off my wife like a pix
John nearly jum; ed to his feet.
"Rather dusty," was the response in
whoop, and the conversation continued
The neighbors for blocks around my
heard it; when I was in the third story
building I heard every word.
In the course of the evening my as
occasion to say to me:

ccasion to say to me:

occasion to say to me:

"How loud your wife talks!"

I told her deaf persons talked loudl that my wife being used to me was not a by the exertion, and that she was gettin very nicely with her.

Presently my wife said softly:

"Alf, how very loud your aunt talks" Yes," said I, "all deaf persons do getting along with her finely; she her word you say." And I rather think s

Elated at their success in being un they went at it hammer and tons, ti thing upon the mantle-p ece clattered thing upon the mantle p eee clattered and I was seriously afraid of a crowding in front of the house.

But the end was near. My aunt an investigating turn of mind, was definding out whether the exertion of was injurious to my wife. So—
"Doesn't talking so loud strain your said she in an unearthly whoop, for was not as musical as it was when young.

"It is an exertion," shricked my "Then why do you do it?" was th ing scream.

"Because—because—you can't b don't "squealed my wife. "What!" said aunt, fairly rivaliz

road whistle at the time. I began o think it time to evacu I began o think it time to evacuate mises; and looking around and seei gone, I stepped into the back parlor, he lay flat on his back, with his fer angles, and his body rolling from si with his fist poked into his ribs, agonized expression of countenance uttering a sound. I immediatel voluntarily assumed a similar attitudial from the relative position of our

think from the relative position of ou ter, appoplexy must inevitably have a horrible grean which John gave v his end-avor to suppress his risibility betrayed our hiding place.

In came my wife and aunt, who l I got then I never got before, and I to get again.

I know not what the end would if John, in his endeavors to be resp sympathetic. had not given vent groan and a horse laugh that all g upset and we screamed in concert.

I know it was very wrong, and itell such a falsehood, but I think Opie herself would have laughed seen Aunt Mary's expression when formed that her hearing was defect.

ANSWERS TO NOVEMBER

Indus. 277. - Obi. 279. - House, ouse, use. 280.-C

ANNA N E  $\frac{\mathbf{A}}{\mathbf{R}}$ O N C E A CRE 281. — S

28?.-No answer has been sent with my aunt, I said:
"My dear aunt, there is one rather annoy."

Let some of the smart ones get at



BEAR HUNTING IN RUSSIA.

Russian, who, stretching forward his left a m, which is thickly bandaged, pu-hes it into the bear's open mouth and then stabs him with the short sword which he holds in his right hand.

Rather dangerous looking work, but to the Russian, who has often done the same thing be ore, and knows just where to strike the bear in order to inflict a mortal wound, it is simply sport.

## A SMART AGENT.

"Sir!" said a tall, thin man, clad in a worn, very shining garb, suddenly appearing in the room, "I have ventured to call to lay before you one of the most astonishing inventions of modern times." tions of modern times." They all begin in some such impressive way

as that. A gas burner, sir."

I was busy arranging some paper in a corner, and having both hands full, with a pen held crossways in my mouth, I was for the

moment quite at his mercy.

Perhaps, sir, you are aware that in the case of every kind of burner but this I now show you, gas gives off a most noxious efflu-vium, having a peculiarly ruinous effect upon the eyesight.

By this time I had emptied my hands and mouth, and was advancing upon him. Fixing his eyes upon mine, he started back in dis-

who, by the way, is a pretty sizal le fellow, thinks he is going to make short work of Mr. Russian, who, stretching forward his left a m, mainfacturer stamped on the middle good enough to drop a line to their well known house at Glasgow, and a man will instantly be sent to attend to it."

I was beaten. This offer to send a man

I was beaten. This offer to send a man from Scotland into the heart of England, after a lapse of years, to put a gratuitously bestowed three pence-halfpenny gas burner to rights, was too much for me. I had to make a

## MY DEAF WIFE AND AUNT.

I had an aunt coming to visit me for the first time since my marriage, and I don't know what evil genius prompted the wicked-

know what evil genius prompted the wickedness which I perpetrated toward my wife and
ancient relation.

"My dear," said I to my wife on the day
before my aunt's arrival, "you know Aunt
Mary is coming to-m rrow; well, I forgot to
mention a rather annoying circumstance with
regard to her. She is very deaf; and although
she can hear my voice, yet you will be obliged
to speak extremely loud in order to be heard.
It will be rather inconvenient, but I know you
will do everything in your power to make her will do everything in your power to make her agreeable."
Mrs.—announced her determination to

Mrs.—announced her determination to make herself heard, if in her power.

I then went to John N—, who loves a joke about as well as any person I know of, and told him to be at the house at 6 p. m. on the following evening, and felt comparatively

I went to the railroad depot with a carriage next night, and when I was on my way home



HONOR AMONG POULTRY MEN-MORE OF IT WANTED.

In all our dealings with others st depend more or less upon the integrity whom we transact business. We can-rays know with certainty that we are an article of the exact quality as that an arricle of the exact quality as that the we pay. In many cases our decision or not to buy is based largely upon the In no other business, perhaps, is this that in the poultry business. Hence, present on the part of the fanciers seems of cultivating a high standard of

oultry papers have during the past n burdened with discussions on the of excellence-standards for judgin utward appearance—but makes these as we may, they cannot all ays reveal the tich so often abounds in apparently the is in the country. We need some hing an mere outward appearance as a sof purity. We want men of mora district integrity, to fill the ranks in army of poultry breeders now so rganizing in the West. How are we

seless perhaps to talk on this subject who have been long in the business. est, straightforward dealers know alrom exp rience the importance of a while those other wise disposed t all likely to change for the better; ch as have recently embarked in the and it was our pleasure to see many r fairs this season—a timely word of ray be a benefit. Beware, not only duped" by others but carefully avoid ce of any of the questionable ways to the business. In filling orders be mid exactly what you agree to send, r fear to say you have not as good an is called for, if you really think you In short, always deal in accordance following counsel-good enough by for any one to live by: "Base all your pon a principle of right; preserve your of character, and in doing this never of character, and in doing this never the cost." You may seem to advance thy at first by what some would term carefulness," but it will not be one before you will find among your, those who have forsaken that class and dealess who are more for the and dealers who car more for the in than for the real advancement of

therm ans of building up for yourgood reputation, join your local or ciation, and in doing this aim to bring ety additional credit and worth before by your connection with it, as well refited personally by the standing it h in return.

the above from the Prairie ell knowing that the hints are and needed in our country. An reputation is worth more than a irst prizes.

## CONFINING POULTRY.

h to confine our heas so as to pro den and rops w must necessarily more pains than when we allow n at large. To confine hens and do as well as wh n allowed t run e must follow the following rules regularly at least twice a day; not ut just enough to satisfy their appe-

plenty of water before them all the

plenty of gravel and sand before

de for them a good warm roosting always keep it free from dirt and

at least half of their park in grass, te remain er occasionally, so as to plenty of wallowing places. G and and one remedies recommend. nick ns from lice are thrown into the following safe and effectual spoonful each of lad oil and powfras bark; mix and apply to the head the chick n, and under the wings of an old fowl. One application of if careful y done, is all that if

lard-oil alone, or common clean swer every purpose of the above tis thus lard or oil, stopping the res of the lice, that kills them so ad the sassafras has n thing to do

alone will do the work every time, and the chicks are spared the risks of taking cold and being otherwise infuriously affected by the use of sulphur.—*Prairie Farmer*.

#### LATE CHICKENS.

The general and very correct opinion among breeders is that early hatched fowls are more valuable than he late ones. Hence it has become almost a second nature to some to make all their plans upon the supposition that the hatching season closes with June, at the latest, and the chicks hatched later than May cannot be much counted upon for first class

birds.

Early chicks will, as a rule, grow a trifle larger than those hatched from July to September, and will, of course, be ready for the market and to lay in better searon; but if you will have a care to provide good, warm quarters for your chickens when the first chilly autumn weather comes on managing to keep them weather comes on, managing to keep them facing the south, till the sun is well up and warm, you need not lose any by the cold, nor stint their growth. Then provide for them regular supplies of flesh, in place of the worms and grasshappers now passed away: also chop and grasshoppers now passed away; also chopped cabbage, onions, etc., which they will ear

ped cabbage, onions, etc., which they will earninstead of summer grass, and they will develope splendidly instead of being hatched out in time. And when spring opens, and some of your early hatched pullets have laid out one itter and are resting for a while, your August and Soptember fowls will be laying nicely. This is not theory, but facts, and the result of numerous experiments. The only fault of the plan is to be found in the fact that late chickens cannot be habitually neglected, but must be cared for and with proper care they will ma'ure well and prove profitable.—Saxon, in Northwestern Poultry Journal.

#### MORTALITY IN POULTRY.

Ordinarly, six or eight per cent, of adult fowls will die of disease annually, when they were kept for profit and given a stimulating diet to make them lay as much as possible. This is not surprising when we reflect that our domestic fowls are in a high artificial condition. domestic fowls are in a high artificial condition: domestic fewls are in a high artin in condition, the production of large numbers of eggs if un natural, being a habit induced by man, and natural, being a habit induced by man, and manufactured the constitution. The natural, being a habit induced by man, and causes a great strain on the constitution. The artificial sup ly of food in unlimited allowance, with no necessity for exercise on the part of the fowls, is another source of disease. In the wild state every species of bird must work for a living and produce their food a little at a time. It may be observed, also, that during he very part of thelyear when food perchances to be abundant, the wild fowls are kept from laziness by the necessity of feeding their young, nature abundan\*, the wild fowls are kept from laziness by the necessi y of feeding their young, nature having fixed the breeding time in the flesh season as regards foreage. Again the structure of fowls is so changed by ages of breeding, that the wings and leps, and whole sets of muscle connected therewith are dwarfed by disease, while other portions of the body are made relatively large, which impares the general viscons. tively large, which impares the general vigor tively large, which impares the general vigor by destroying to some extent the natural ballance of the organization. For these and other reasons it is to be expected that the ord nary death rate in a poultry yard will be considerable. The fact is that fowls will die of old age any how, (in most cases)—renders it likely that a certain portion will die annually at an earlier age. In conformity with this idea, geese, which do not reach old age till twenty to one hundred years, do not drop off in the early hundred years, do not drop off in the early vears or mature to so great an extent as

The moral of the above is that novices in poultry raising need not worry over their illluck, or mistru t that their management is any worse than that of their neighbors because, perchance, a jew of their fowls of two, or three, o four ears old die every summer. It is to be expected, unless the breed kept is unis to be expected, unless the breed kept is uncommon hardy, and all the circumstances are unusually favorable. Reduce the death ratas much as possible by hygenic measures, rather than by medicine. Give plenty of air rather than by medicine. Give pienty of air and sunshine, feed moderately, and promote exercise, and expect some losses in spite of all precautions.—Buffalo Live Stock Journal.

In the affirmative I would reply, allow me to give a few facts to carry out that asser-

March 1st, 1874, I had seventy-five pure bred hens and cocks, from which I have sold in eggs and fowls \$201 worth, have used in the family one hundrel dozen eggs which have been worth 25 cents, and have at present forty-eight of the old stok. eight of the old stock, and over one hun red nice y ung chickens. The cost since January 1st has been \$34 so that any one can see the net has oven for so that any one can see the net result. Of course a great amount of time, care and attention have been bestowed in obtaining so good a return, and all this without those nice grassy runs which so many fanciers have; what vegetable food they have had has been given. demonstrating the fact that with been given, demonstrating the fact that with proper management, poultry does pay. No the same purpose but the lard been given, demonstrating the fact that with proper management, poultry does pay. No thouse with such a weight continued cutting anywhere.

ported D. B. cock through paralysis; he lived thirteen days without walking, and I took sympathy and ended his career. I shall this fall dispose of two of the four varieties which I keep, believing that a less number of kinds with the same attention bestowed will be more satisfactory to the fancier, and produce a lighter type of fowls. As to the varieties I shall keep, it is a hard matter to decide. Each kind has so many redeeming features that one is lost to part with any when he sees so many good qualities and enjoys the beauties of the birds; however, I feel at present that the Light Brahma and the Partridge Cochin will be the varieties retained. Waiting to hear of better returns from any breeder with equal stock, I remain respectfully—Dr. J. H. Bryant in National Poultry Journal. s lost to part with any when he sees so many

# The Morse.

OPINIONS ON SAFETY.

Unsafety on the road generally arises from one or more of the following causes—bad action, bad formation, sluggishness, or infirmity, or all combined, if we suppose any man's sins to be so great that such an animal has got into

his hands as a just retribution of them.

To begin with action. There may be a diversity of opinion as to what is pretty action, and each man may harmlessly indulge his taste in this particular; but there should be but one opinion as to what is sefe action. opinion as to what is safe action. Many persons conceive, if a horse has high action, it denotes perfect safety. There can be no great error; for high action has very little to do with safety, in fact, in many particulars it very much contributes to its reverse. The most moderate action is generally high enough to clear all the imperceptible inequalities of a road, and it is only of such we need have any road, and it is only of such we need have any fear; and so far as loose stones go, if they are large enough to want high action to get over, the horse would step on one side of such, not over them. It is chiefly the way in which a horse puts his foot to the ground that constitutes safaty or the reverse. If he puts it down tutes safety or the reverse. If he puts it down with a shove (for we can find no better expression,) he must be unsafe, as the shock he sion,) he must be unsafe, as the suock he would experienc; from any opposing substance would very likely bring him down; and this would of course be just the same whether the actio; previous to putting the foot down had been high or low. If he puts it fairly on the ground, whether the foot was placed on the ascending part of a rise on its summit or on its ground, whether the loot was placed on the ascending part of a rise, on its summit, or on its decivity, (we mean such rises as we meet on ordinary roads,) it would make little difference. A horse has as much dread of falling as we have that he should do so; therefore he would avoid or lift his legs over any large or visible avoid or lift his legs over any large or visible obstruction. however near he might go to the ground in his general action, if he met such obstacles as required lofty action to get over. It is only when his action is so very low, or his sluggishness so great, that he does not lift the foot high enough to clear the inequalities that he meets that he becomes unsafe. Quick action, and putting the foot property on the ground. and putting the foot properly on the ground, are two of the great st disiderata in a road

There is one thing that constitutes much greater denger than any bad action as to going too near the ground. This is what we have specified as malformation; of course we allude to the forequarte s. We care not however faultess, high, or grand may be the action of a horse, if his fore-legs are not put on in their proper place he never can be fit to ride. We nean by this, if his legs stand under him, al the high action in the world connot save such a horse if ridden—at the slightest mi take down he must come—he is out of the perpendicular, in fact overbalanced. We know of many leaning towers, some inclining more than o hers; still they are safe in their present state of declensions; but let that declen state of deciensions; but let that deciension be increased perhaps one foot, down mu t come the whole fabric. So with the horse; he would go safely enough so long as his present inclination was sustained; but let him make a false step, so as to throw his fore parts forward d wn he must come also. Such horses make as good harness-horses as any, and are generally strong horses at such work; for a harness-horse should not like the saddle-horse be on his horses that are sadden can get his haunches; horses that are, seldom can get along in harness with heavy weights behind them, particularly up hills. We will suppose we could balance a horse, as we can a stick, on the finger:—for a saddle-horse the balance should be such as that the fore-parts have always an inclination to rise; for a harnesshorse, it should be the reverse, as a horse may horse, it should be the reverse, as a horse may nave magnificient action in his trot without being on his haunches. Heavy men should most unquestionably never ride horses with high ac ion, and with heavy weight on him a horse wants to bring one leg to the support of the other as quickly as p ssible. High a tion t res; and ho ses having it are, with a weight on them, very likely when tired to hit their legs. Nothing can be more awful than such a horse with such a weight cutting by shee dy, or indeed cutting anywhere.

Sluggishness is another great cause of un-Sluggishness is another great cause of unsafety, but more particular in the roadster. We hate it in any horse; we are not fond of your thorough steady goers. We never knew any of them, in horse or man, good for much. Of all horses, a buggy-horse should be at least a merry one. We often use them where there is no excitement for them, nothing to cheer them but their own spirits: these should be at least but their own spirits; these should be at least equal to proof, for they often get a good deal of diluting. Personally we would never wish for a very steady one for any purpose but a shooting pony, and as we never shoot, we never wanted one. A very hot horse in hot weather is certainly anything but pleasant; but of the two we had rather be kept in a comfortable warm perspiration by a hasty horse than in a cool one by a sluggish brute.

Of all men begins of the cool of the cool of the cool one by a sluggish brute.

cool one by a sluggish brute.

Of all men, heavy fellows require a cheerful light-hearted horse. Such horses are very seldom unsafe. If they make a mistake, they are all alive and right in a moment. The slug, if he does the same thing, we suppose considers it a dispensation of Providence that he is to go down, and that it would be sinful to resist it is a down he goes carrying (on his kneet) the go down, and that it would be sinful to resist it; so down he goes, carrying (on his knees) the marks of his piety through life. Est modus in rebus applied as well to horses as it does to things in general. We may like horses with a trings in general. We may like horses with a little more of the curry-powder in their composition than the generality of persons do; we hold it a great improvement to most dishes; so we think it to most horses; and so far as temper goes, we are quite clear the light-hearted horse is less to be feared from its volatility than the other is from his sluggishness; for the latter other is from his sluggishness; for the latter, being made to do that against his inclination which the other does willingly, is sure to be put out of temper; and then such a gentlemen can he as always are not the such a gentlemen can be as alert as any of them, and is only so when he means mischiej. To an infirm person, a nag that will stand at a door for half a day without being tied, stands like a post on being mounted, and go something like one afterwards, may be desirable acquisition.—Prairie Farmer.

#### The Apiary.

PREPARING BEES FOR WINTER.

By A. C. Attwood Apiary Editor.

In view of the great mortality among bees

In view of the great mortality among bees every winter, keeping them for winter quarters is one of the greatest importance.

It is difficult to give advice where to winter bees, circumstances varies so much, some winter with good success in cellars, but the objection to cellars, are, that they usually are too damp, but if you will wintr in a cellar keep the hive from the wall, and up from the floor and give plenty of upward ventilation, if in box hive stand them upside down on a bench, and tack wire cloth over the mouth and bench, and tack wire cloth over the mouth and do not go often in with a light to disturb them. In winter we wish to retain the heat in every hive, and still allow the moisture to pass off. I advise to make as many cushions as you have hives outlof old woollen stuff; makethem the full size of the honey board, and six inches thick size of the honey board, and six inches thick, w th dry corn husks, cut straw or chaff, take off the long board and place the cushion on instead, right on the frames have it fit tight so no bees can get up, that is important, then put a little straw in your top cover, and crowd it down on top; no matter where bees are wintered this preparation is good, get every thing ready so there will be no delay when winter comes, and see in time that the

winter comes, and see in time that the good wife does not cut up all the weollen stuff about the place in carpet rags the way mine does.

If you have any place to winter in that is about frost proof, dark and dry, and quite as soon as you see that winter has fairly set in, then remove your bees to that unless you have a place that is nearly right, it is better to winter out of doors, in the old styles of bee sheds leave the fly hole open, and close up so mice cannot get in them, pack tight at the back cannot get in them, pack tight at the back side and top with pea straw, say a foot thick all around; leave the front of the hives exposed an around; leave the front of the nives exposed to the noon sun, and if the bees have plenty honey, and nothing particularly happens they will come out in the spring all right, of course they will consume more honey wintered in this way, than is in a proper repository; at least they are better out as above than placed in a wood-house, drive barn, or any such cold

## ITALIAN BEES IN BAD ODOR.

We have a report of a meeting of the Ger man agriculturists of Odor Bees, conveying an unfavorable account of Italian bees. Herr Horr, of Mattenheim, said he had kept Italian bees sence 1857, and, taking the utmost pains with them, he became possessed of many fine, colonies, and also some crosses in the first and second degree. As a result of his experience, he would not give a straw for the foreign races. There seemed to be two great drawbacks: one the foul brood and the ther the strong propensity to swarm. With foul brood ie had lost heavy colonies, and on the whole many large

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apairies have gone entirely to ruin from these causes. Some who started with from 20 to 30 stocks have not now an ounce of honey. He acknowledged, however, that half-breeds are now doing well, and he thinks that if the money expended on Italian and other bees are now doing well, and he thinks that if the money expended on Italian and other bees had been devoted to improving such native stocks or had distinguished themselves, a great progression would have been made. Many beekeepers in this country as well, have become discreted with their experience with the Italian. keepers in this country as well, have become disgusted with their experience with the Italians, and especially in their purchases from persons who ought to be above deceit and sharp practice; and now it looks as though there would be a decided reaction against Italian bee culture. The suggestion of Herr Door, that good results could be secured by propagating such stocks as distinguished themselves, seems worthy of special attention.—

N. Y. Tribune.

# Latrons of Kusbandry.

The Dominion Grange acts entirely independently of the United States. None can read the Constitution without approving of its contents. It is our opinion that even more good may yet be introduced into its

We consider that the Emporium plans might even do more good and act more beneficially, if carried out. As the Patrons of Husbandry or Granges now stand, much good may result from them. The social and intellectual part we look on as being the most important. Perhaps the majority who join the order look more to the immediate pecuniary gain they may receive by procuring their implements, &c. at a cheap rate, which they are enabled to do.

A private circular has been sent to the Secretaries of the different Granges, quoting prices from manufacturers that implements may be procured at. Many, no doubt, will avail themselves of the advantages therein stated, and an impetus to onward move ments will be the result.

There are now 59 Granges established in Canada. As far as we are able to judge, the best informed farmers that have joined the organization are satisfied with it, and much good may result from discussions and social gatherings. There are some few members who only look to the present saving of a few dollars on some purchase; such are not active or good members, but have to be borne on the shoulders of the workers. The less of that class a Grange is composed of, the better.

We do not think the Order will injure any legitimate or proper business. We think there is a great deal of unnecessary cere mony that might advantageously be omitted, thus giving more time for valuable informa-

tion being disseminated. It is our impression that men should not be too strongly pressed to join this organiza-tion, but let them apply themselves. Every member cannot be too strongly cautioned not to divulge the prices sent to them by the manufacturers. Manufacturers and dealers should take no heed of a private individual claiming to be a Patron, as the business should only be done through the Secretaries

There has been a loss of about \$100,000 to the Patrons of Husbandry of Cnlifornia by engaging too many ships, and the failure of an agent. The loss will cause greater care and vigilence in financial matters in other parts. It is our opinion that many place too great importance on the dealing system. In regard to implements it may be right, but where persons live near large cities the competition in all groceries and dry goods is reduced to mere working pro-If the Patrons gain an advantage on tea, they will pay higher for some other commodity. We cannot exist without our regular dealers.

Agricultural Clubs are a failure in Canada. The Patrons may take their place aud be a success, and wili be if the right men take hold of them, and they are taking hold; thus progress will be made the next few months.

We hear from the Secretary that numerons

applications are being made from the different provinces for the establishment of Granges, and that the Masters of Subordinate Granges are holding meetings in different parts of the country. Some of the Granges in this vicinity are progressing much better than others, but all are increasing in the numbers of their members.

Persons wishing for information concerning the Grange organization should address Thos. Dyas, Sec'y Dominion Grange, Lon-

# Granges Organized Since Last

Issue. NIAGARA DISTRICT DIVISION GRANGE.

Master, Robert Green; Overseer, John McElashan; Lecturer, J.b R. Moore; Steward, W. M. Sloan; Asst. Steward, S. H. VanEvery; Chaplain, Dexter D. Overholt; VanEvery; Chaplain, Dexter D. Overholt; Treasurer, Edward Morris; Secretary, Peter Learn; Gatekeeper, James Moore; Ceres, Mrs. Daniel Metler; Pomona, Mrs. John McElashan; Flora, Mrs. Robert Green; Lady Asst. Steward, Mrs. S. H. VanEvery.

Executive Committee.—W. Pemberton age, Daniel Metler, W. M. Sloan.

Division Grange Deputy.—Daniel Metler, North Pelham.

PIONEER GRANGE. -Wm. Keith, Master, Hammond P. O.; Jas. M. Mundell, Secretary, Hammond P. O.

50. Woodland Grange.—A. Webster,

Master, Jackson P. O.; Stephen Webster, Secretary, Jackson P. O.

51. Colinville Grange.—John Nelson, Master, Ossian P. O.; James Fiddes, Secretary, Ossian P. O.

52. TRAFALGAR GRANGE.—Hiram Al berson, Master, Trafalgar P. O.; Jas. B. Marlatt, Secretary, Trafalgar P. O.

53. PERSEVERANCE GRANGE.—Wm. Burgess, sr., Master, Burgoyne P. O.; Wm. Burgess, jr., Secretary, Burgoyne P. O. 54. Hornby Grange.—Christopher P. Preston, Master, Hornby P. O.; Wm. S. Hall Secretary Hornby P. O.; Wm. S. Hall, Secretary, Hornby P. O.

55. Sugar Loaf Grange.—John Schol-

56. Bond Head Grange.—John D.

Stone, Secretary, Port Colborne P. O.; D. J.

Bond Head Grange.—John D.

Fraser, Master; Geo. Gaviler, Secretary. 57. — GRANGE.—Hugh McLaugh-lin, Master, Spring Bank P. O.; John Har-rington, Secretary, Keyser P. O. 58. OSBORNE GRANGE.—James Duncan,

Master, Osborne P. O.; Donald McLellan, Secretary, Osborne P. O. 59. PROSPECT GRANGE.—Thos. Houston, Master, Paisley P. O.; Wm. Bradley, Secretary, Paisley P. O.

# Miscellaneous.

MILK AS A DIET.

MILK AS A DIET.

It is somewhat singular that a prejudice should exist among the masses in relation to the injurious effect of various articles of food. Milk is universally conceded to be eminently proper, in fact the best diet for children. For adults we presume that the testimony among the majority would be that it was altogether unfit to be used as an article of food, especially in the summer time, the principal objection urged being that it is "bilious."

The popular prejudice against milk by the inhabitants of cities is due more to their artificial life and the adulteration of the milk they use than to any other cause. Indeed, when we

use than to any other cause. Indeed, when we were young, milk fre h drawn from the cow and taken on an empty stomach was prescribed by physicians as a cure for dyspepsia. So far from being injurious, it is one of the most healthy articles of daily food that can be taken by the average man.

tice is becoming common among many sensible business men of Chicago to take milk with oatmeal or cracked wheat porridge as a simple lunch at mid-day when dining down town. It is also fashionable so to do in the large eastern cities. It is to be hoped the fashion will continue to grow, for there is no class of men who need the constituents contained in this simple diet more than do the business men of our cities. If practiced by the average fashionable women also, we should see fewer sharp elbows and general skinny anatomies than we do. mies than we do.

mies than we do.

One of the principal object ons to a milk diet in out cities is the fear of adulteration or impure milk. This may easily be got along with by knowing of whom you get the milk. It is true there is a vast quantity of milk sold in our cities, the produce of the refuse of distilleries; nevertheless this is but a stall amount of the whole quantity used. The great bulk is brought direct from country dairies. bulk is brought direct from country dairies and undoubtedly is served measurably pure; or a least without other adulteration than water, and this, although a rascally one, is innocent of bad effects on the health.

If this be true, it can be obviated by test and careful watching. The customer may test the commodity of the milkman; he again may test that of the dairyman, and in the end it will result in honest dealing all round. end it will result in nonest dealing all round. The chronic complaint of the adulteration of milk is, as a rule, unfounded. Isolated cases are met with, but so far as my experience goes, the milk furnished to the milkmen of Chicago by the country dairies is good and pure. It may be kept so by ordinary watchpure. It may be kept a fulness. - Western Rural.

#### The Markets.

The markets.

The low prices of farm produce are confined to wheat. For barley and oats there is an active demand, with high prices—for barley especially. Good malting barley is always in demand, and this year its price is unprecedentedly high. It has been a deficient crop in England; in France the crop, was in every respect a good one, but was all bought up very early.

The demand for oats for horse feeding is always in excess of the supply, and the average price at Mark Lane has within a few years advanced from 21s 11d to 27s 11d.

Lane has within a few years advanced from 21s 11d to 27s 11d.

Dairy Products have brought high prices throughout the season, but there is now a downward tendency in England and America. The Liverpool cable quotation is 71s for cheese, a lower price than it commanded some time since. The market is quiet and there is no tendency to advanced prices. The best lots of cheese offered for sale at Utica, by last advices, would bring only 15c to 15½c. The highest price in the New York market is 16c. In Toronto the market is quiet, with prices at 14c to 14½c. Butter in the American market has also a downward tendency. In Detroit the range for fair lots of butter is from 29c to 31c.

PRODUCE MARKETS.

Naw York.—Wheat per bushel, \$1.06 to \$1 16; corn 86c to 88c; barley, prime \$2.75 to \$2.90 per 100 lbs. Canadian \$3 to \$3.05; oats 66c to 68c per bushel; Canadian \$3 to \$3.05; oats 66c to 68c per bushel; Chicago.—Wheat 88c to 89½c per bushel; Barley \$1.31; Corn 73c to 77c.

Toronto.—Wheat—Spring 96c; Fall \$1 to \$1.03 per bushel; Oats 43c to 45c; Barley \$1.10 to \$1.15; Peas 75c to 80c; Rye 70c; Hay \$16 to \$22; Dressed Hogs, per 100 lbs., \$6.50 to \$7.25

London.—White Wheat per cental, \$1.60 to \$1.70; Red Winter Wheat \$1.40 to \$1.50; Spring Wheat \$1.55; to \$1.05; Barley \$2.20 to \$2.28; Peas \$1.25 to \$1.28; Oats \$1.12 to \$1.14; Corn \$1.20 to \$1.50; Rye \$1.25; Eggs, fresh, per dozen, 18c to 20c; Keg Butter 22c to 25½c; Crocks 27c to 28c; Rolls 26c to 30c; Cheese—dairy 10c to 11c; Factory 11c to 11½c; Hay \$44 to \$15; Wo-1 3c to 36c; Potatoes, per bag, 85c to 90c; Apples 40c to 60c.

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# CONTENTS OF DECEMBER NUMBER

EDITORIAL :-

New Seed—Spring Wheat, 177; Clawson Wheat lustrated), 177; To Our Subscribers, 177; Our Ch—The Little Wanderer (illustrated), 177; Hand Potatoes in the Irish Fashion, 177; Agents Wan 177; Colorado Potatoes, 177; Prize Essay, 177; Implement Manufacturers, 178; The Cockle Burr, Implement Manufacturers, 178; The Cockle Burr, Increased Value of Land in England, 178; Remark Cases at the Last Assizes, 178; Blight in Fruit Tr 178; The Little Giant Threshing Machine, 178; In ance on Sheep, 178; Prize Essay—Ralsing Sheep, Notes of the Garden and Farm—Agricultural Extons—Prizes, &c., 179; Sharp Practice, 179.

CORRESPONDENCE :-

Brownell's Beauty Potato, 179; New Seed W 179; The Farmer and the Railway, 179; Agricult Exhibitions, 180; Inquiry, 180; Best and Chea Fence, 180.

What Shall be Our Grain Crop in the Coming Y 180; December on the Farm, 180.

STOCK & DAIRY: -

Have You Provided a Winter Cow? 180; A Progrous Texan, 180; Winter Feeding, 181; The Yorks Pig, 181; Winter Care of Dairy Stock, 181; Cown Those That Pay, 181; Roots for Stock Feeding, 1 How to Feed Pigs, 181; Carbon for Hogs, 181; 1 periments in Feeding Cattle, 181.

AGRICULTURAL:-

Deep Cultivation, 182; Open Ditches are not Drain 182; Making Manure on the Farm, 182; Sickness of a Soil, 182; Capabilities of an Acre, 182; Prize Farms Scotland, 183; A Trial of Reaping Machines in France 183; To Build a Rat-Proof Crib, 183; Does Grass In prove the Soil, 184; Fifty Bushels of Wheat to the Acre, 185.

ILLUSTRATIONS:-

Our Chromo—The Little Wanderer, 177; Clawse Wheat, 177; A Fisher Capturing its Prey, 184; Jessu Fall, Hudson River, 185; The Great Boom, Huds River, 185; Bear Hunting in Russia, 187.

GARDEN, ORCHARD & FOREST :-Pruning Fruit Trees, 185; Notes from the Mar

MINNIE MAY'S DEPARTMENT, 186.

UNCLE TOM'S COLUMN, 187. POULTRY YARD:-

Honor Among Poultry Men—More of it Wanted 188; Confining Poultry, 188; Late Chickens, 188; Mor ality in Poultry, 188.

THE HORSE:-Opinions on Safety, 188.

THE APIARY: -

Preparing Bees for Winter, 188; Italian Sees in Ba

PATRONS OF HUSBANDRY, 189. Miscellaneous, Markets and Advertisements, 189. Advertisements, 190, 191, 192



My annual catalogue of Vegetable and Flower Seeds for 1875, will be ready by Jan. 1st for all who apply. Customers of last season need not write for it. In it will be found several valuable varieties of new vegetables introduced for the first time this season. Having made new vegetables a specialty for many years growing over a hundred and fifty varieties on my several farms, I would particularly invite the patronage of market gardeners and all others who are especially desirous to have their seed pure and fresh, and of the very best strain. All seed sent out from my establishment are covered by three warrants as given in my catalogue.

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clusive.

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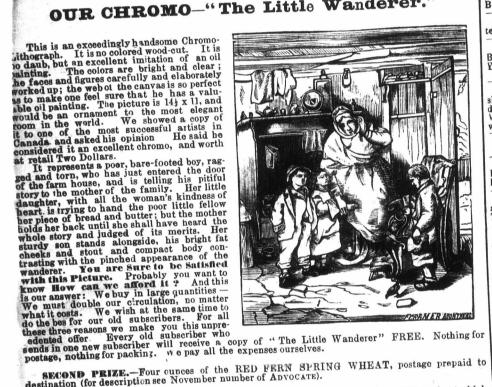
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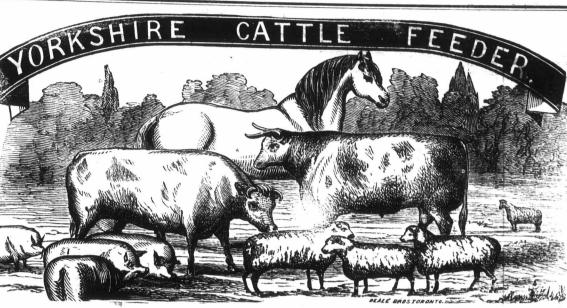
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#### INVESTMENT SOCIETY AND SAVINGS BANK.

OFFICE, DUNDAS STREET WEST. (Late Huron & Erie Office.)

The conditions of the Act amalgamating "Free-hold and Union" with the above Society have been complied with, and the following officers elected:—President—Alexander Anderson, Esq., M. D. Vice-President—Wm. Glass, Esq., (Sheriff Co. Middlesex); Inspecting Director—Richard Bayly, Esq.; Solicitor—David Glass, Esq. Board of Directors—Richard Tooley, Esq., M. P. P.; Lieut, Col. James Moffatt; George Birrell, Esq.; A. T. Chipman, Esq.; John Wright, Esq. (of Wright & Durand; Adam Murray, Esq.; Jehn Mills, Esq.; D. Regan, Esq.; James Owrey, Esq.

BORROWERS
Will be dealt with liberally, and money advance with the least expense and delay possible

THE SAVINGS BANK
Is now open, and money will be received on deposit, in large and small sums, and interest allowed at the rate of 5 to 6 per cent., as arranged for.

JNO. A. ROE.

London, April 30, 1873.

#### MILLER'S TICK DESTROYER! FOR SHEEP

T DESTROYS THE TICKS, PROMOTES THE Growth of the wool, and improves the condition of the animal. Sold everywhere in boxes at 35c., 70c. and \$1. A 35 cent box will clean 20 sheep. HUGH MILLER.

Agricultural Chemist, Toronto.

It may be had at the Agricultural Emporium 8-74

() CEAN PASSAGE.—Persons intending totake a trip to the Old Country, will find it to their advantage to go by the Steamers of the National Line large, safe and comfortable vessels. Fare tow. Apply to F. S CLARKE, next door to the Advertiser Office, London.

(REAT SALE AT CHISHOLM & CO'S.— Whole winter stock reduced. Now for Bargains at the Striking Clock.

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ARNESS ot Street, 3-41 eet, East o

# George B. Harris & Co.'s

London, Ont.

Improved Farms and Wild Lands for Sale in all the Western Counties.

Over 200 Improved farms for sale to Select from—particulars of some we are not at liberty to publish. Information given on

Power Grist Mills for sale, in Middlesex, Elgin, Kent and Norfolk.

Also a few desirable Country Residences, with from ten to thirty acres of land.

Trust Funds for investment on Real Estate and Mortgages bought.

#### ESSEX

54-142, Township of Tilbury West.—100 acres, 40 improved; new frame barn, shed and stable. One mile rom Comber Station, on the Canada Southern Railray. Price \$3,000; terms easy.
75-165, Township of Rochester.—100 acres, high and ry; good drainage; hickory and cordwood. One mile rom the Canada Southern Railway. Price \$1,000;

127-209, Township of Colchester.—200 acres. A good, heavily timbered lot, estimated to have 10,000 cubic feet of white oak, 3,000 feet red oak, 12,000 cords of wood and 3,000 oak ties; grossed by the Canada Southern Railway; 2 miles from Colchester; 4 miles from Essex Centre. Price \$16.00 an acre.

# ELGIN.

108-190, Township of Southwold.—75 acres, about 5 improved. Timber, black ash, beech and elm; large saring orchard, grafted fruit; soil, clay loam; well nderdrained with tile; good fences, board and rail; ame house, 24x28; frame barn, 32x50, stable under; ow sheds for 20 head; milk cellar; schools and hurches I mile; Port Stanley 6 miles. Price \$3,800, art or time.

160-182, Township of Aldboro.—200 acres—about 139 acres clear; balance timber, beech and maple; good orchard, grafted fruit; clay loam; well watered; well fenced; good, new and large frame house; barns, sheds and stables good; churches and schools close; village i mile; cheese factory in the village. Price, 29,000.

4-23, Township of Dunwich.—100 acres, 50 cleared, well timbered; maple, beech, tak, elm and ash. 50 well timbered; maple, grafted fruit; clay loam and

Good bearing orchard, grafted trut; ciay foam and sand; frame house and good barn; churches and sehools within 2 miles; railway station 2½ miles. Price \$3,000; terms easy.

6.40, Township of Dunwich.—92 acres, 60 improved, 32 timbered; beech and maple; about 100 fruit trees; clay and sand loam; frame house; churches and schools close; railway station, 2 miles. Price \$3,000;

terms easy.

12-64 Township of Bayham,—140 acres, 70 improved; maple, beech, chestnut, black ash, and a few pine; a good sugar bush of 900 trees; orchard; grafted fruit; clay loam; timber on this farm sufficient to pay for it; under-drained; frame house; good out-buildings; churches and schools close. Price \$4,000; terms

80-144, Township of Yarmouth.—100 acres, about 60 improved; balance heavy timber; fine orchard, excellent fruit; mixed loam. Large comfortable frame house and out-buildings; frame barn. School one mile; Churches four miles. Price \$3,000; terms very

#### HURON.

28-131, Township of West Wawanosh.—100 acres, 55 improved; beech and maple; clay loam; never-failing springs. Orchard; log house, log stable. Schools close; churches within two miles; railway station, six miles. Price \$2,200.

44-161. Township of West Wawanosh.—43½ acres, 20
44-161. Township of West Wawanosh.—43½ acres, 20
improved; balance principally hardwood, some pine;
orchard; mixed soil; good springs; log house in good
repair. Churches and schools near; Lucknow seven
miles. Price \$1,200.

#### KENT. de

146-228, Township of Harwich.—400 acres, near the Rondeau Harbor. This land is capable of being made into two, three or four first-rate farms.

It is considered the Garden of Canada. Soil a fine

128-210, Township of East Tilbury.—81 acres; north ast 1 lot 24, on the 9th con. A good timbered lot, 5 ules from Tilbury Station, on the Canada Scuthern allway; 6 miles from Lake Erie, close to a good setement. 88 an acre; one-third cash, balance on time suit purchaser.

tlement. Stan acre; one-time terms to suit purchaser.

92-174, Township of Sombra.—100 acres, 70 acres improved; orchard, 400 fruit trees; soil, clay loam; high and dry; churches and schools † mile; log house; Wallaceburg 2 miles; Chatham 16 miles. This farm fronts on the River Sydenham; steamboats constantly passing. Price, \$4,000.

# LAMBTON.

70-86, Township of Sombra.—100 acres wild land; niles from River St. Clair. \$7 an acre; terms easy.

15-95, Township of Warwick.—150 acres; 80 clear.
Beech and maple. Fine sugar bush. Orchard grafted truit. Light loam, inclined to clay. Good and comfortable red brick house, beautifully situated and surrounded with fine shade trees. Good barn, stable and out-buildings. Churches and schools close. Price, 87,000.

48-100, Township of Moore.—75 acres; 50 improved; balance beech and maple. Mellow clay loam, partly underdrained. Orchard. Good frame house, frame barn, log barn and log stables. Churches and schools near. Price, \$3,500.

74-102, Township of Enniskillen.—100 acres wild and heavily timbered, oak, elm and maple. Price,

68-79, Township of Enniskillen.—185 acres timbered land; dry, good and heavy soil. Price, \$7 sn acres timbered forms easy.

69-85, Township of Zone.—50 acres wild land; first-rate land. \$10 an acre; terms easy.

80-170. Township of Sombra.—53 acres, 40 improved, Hickory, elm and black ash. Clay loam. Orchard, good frame house, barn, drive shed, cow shed, &c., stone cellar. Churches and schools within easy distance. Price, \$2,700.

88-125, Township of Brooke.—100 acres wild lands; west ½ lot 5 on 5th.

west \( \frac{1}{2} \) lot 5 on 5th.

89-171, Township of Moore.—100 acres, 68 acres improved; balance best heavy timber. Good orchard, large and nearly new frame house, barn and sheds; black clay loam; good neighboroood; churches and schools close. Price, \( \frac{2}{4},000. \)

106-188, Township of Brooke.—140 acres, 60 improved; hardwood timber; never-failing spring; also, creek; orchard. Soil, clay loam; frame house, log barn, stable and granary. Price, \$3,850; terms easy. barn, stable and granary. Price, \$3,860; terms easy.

107-189, Township of Plympton.—200 acres, 35 improved; well timbered, mostly hardwood. Soil, clay icam; good spring; also, small creek, empties into Bear Creek, about 60 rods distant; well fenced; log house, 22x26; log stable. Churches and schools I and 2 miles. Wanstead Station, on Sarnia Branch of G. W. R., 2 miles; Watford, 8 miles; Wyoming, 5 miles. Price, \$3,600; \$2,000 cash, balance on time

Price, \$3,600; \$2,000 cash, balance on time

111-193, Township of Plympton.—100 acres. 26 improved; good location. Four miles from Wyoming Station, on the G. W. R., and four miles from Camlachie, on the G. T. R. Soil, clay loam. Timber mostly hardwood. Churches, school and post office close; good roads, and an improving neighborhood. Price, \$2,850.

Price, \$2,350.

113-195, Township of Dawn.—106 acres, 70 acres improved, balance good hardwood timber. A neverfailing, flowing spring. Good orchard. Soil, clay loam. Comfortable hewed log house, well finished, about 8 rooms; frame barn, 30x50, stable with loft, over \$0x16; sheep shed and stable \$0x12, all frame, with oak studs and sills; 2½ miles from village; school and churches close. Price, \$2,600, part on time. 141-223, Township of Moore.—South 1 lot 1 on the st concession, 100 acres. \$10 an acre.

142-224, Township of Enniskillen.—West ½ lot 1 on the 4th concession, 100 acres. \$11 an acre.

#### TOWNSHIP OF ENNISKILLEN.

135-217.—West 1 of lot 11 on the 1st concession 100 acres. 136-218.—Part of lot 18 on the 1st concession, 3

187-219.—Part of lot 17 on the 2nd concession, 107

138-220.—Part of lot 16 on the 3rd concession,

189-221.-Part of lot 22 on the 3rd concession, 190

140-222.-Lot 24 on the 3rd concession, 200 acres.

#### MIDDLESEX.

and churches about a mile. Within 2½ miles of London. Price, \$1,100.

41-157. Township of London—6 acres. Good, roomy brick cottage, 7 rooms and good cellar. Frame stable, coach-house and wood shed. Orchard. Some shade trees. Two good wells and 5 rain-water cisterns. Light loam. Churches and school about ½ mile. London 1½ miles. A nice property; corner lot. On good main gravel road. Price, \$3,000.

1-58, Township of Westminster.—188 acres, 163 clear. Beech and maple. Two fine orchards, grafted fruit, all under good fence. Clay loam. Two-story frame house, large frame barn, stable, sheds, &c. Good gravel roads. London 8 miles. Churches and schools clese. Price, \$10,000; terms-easy.

7-59, Township of Lobo.—186 acres, 80 clear. Orchard grafted fruit; living springs; sandy and clay loam. One and a half story frame house, two frame barns. Schools and churches within two miles. Price, \$7,900; terms-easy.

14-93, Township of Delaware.—105 acres, 40 improved. Beech, maple, oak and pine; fine orchard grafted fruit. Clay loam. Large frame house, with good cellar, good new barn. drive house and sheds. Good gravel roads; London 8 miles. Price, \$3,675; terms-easy.

42-158. Township of London.—200 acres, 160 im-

Good gravel roads; London 8 miles. Frice, \$3,675; terms easy.

42-158, Township of London.—200 acres, 160 improved—hardwood. Two fine orchards grafted fruit. Clay loam, underdrained. Large comfortable frame house, on stone foundation; 2 barns, driving shed, stables, cattle sheds, &c.; large stone cellar. Churches about 2 miles; schools close. London 12 miles; Lucan 5 miles. One of the best farms in the county, and in a high state of cultivation. Cheese factory on the farm. Price, \$12,000; terms easy.

76-166, Township of Delaware.—300 acres, mostly improved. Extensive river frontage, strong land, good sugar bush. Large two-story brick house and out-buildings, but in bad order. Beautifully situated on the river Thames, adjoining the village of Delaware, and 2 miles from Komoka Railway Station, on the G. W. R. Churches and schools close. A fine stock or dairy farm, produces a large quantity of hay. Price, \$18,00; terms easy.

78-168, Township of Ekfrid.—74 acres, 40 improved.

78-168, Township of Ekfrid.—74 acres, 40 improved Good hardwood. Clay loam. Log house, log stable small orchard. Churches and schools near. Price

\$2,500. Township of Ekfrid.—96\(\frac{1}{2}\) acres, 70 improved.

79-169. Township of Ekfrid.—96\(\frac{1}{2}\) acres, 70 improved.

Beecti, Diack asti, uak, maple and basewood. Black clay loam. Small orchard, frame house, barn and shed. Price, \$3,600.

Beech, black ash, wak, maple and basewood. Black clay loam. Small orchard, frame house, barn and shed. Price, \$3,600.

97-179, Township of Metcalfe.—220 acres, 180 acres improved; beech and maple. A fine orchard of grafted fruit, about 10 acres. Clay and sandy loam. Well fenced. Never-failing creek. Large frame house in bad order. Good and extensive out-buildings, brick dairy. Cheese factory on the farm. Market town and railway station 2½ miles. Churches and schools near. Price, \$9,000—\$4,000 cash, balance on time to suit purchaser. This is a first-class dairy farm.

98-180, Township of Metcalfe.—80 acres, 60 acres improved, beech and maple. A small orchard. Clay and sandy loam. Good frame house, 26x56; good barn, 35x56; root house. Two creeks. Market town and railway station 2½ miles. Churches and schools close. This adjoins the above farm. Price, \$2,560—\$1,500 cash, balance in two years.

103-185, Township of Caradoc.—100 acres, 80 acres improved. Timber—oak, ash, cherry and baswood. Soil sandy loam. Comfortable house, brick and frame. Good outbuildings of all kinds. Good root house. A really good homestead and farm, within 1½ miles of Strathroy. Price, \$7,000; half cash, balance payable in from 5 to 10 years, at 6½ per cent.

104-186, Township of Adelaide.—200 acres, 60 improved, balance heavily timbered, mostly beech, maple and hickory. Small frame house, nearly new. Soil, clay loam. Within 3 miles of Strathroy. Price, \$6,000. Half cash, balance on time. This would make 2 good 100 acre farms, the main road equally dividing it.

150-232, Township of Adelaide.—200 acres, about 60 acres improved. Small orchard; timber best hardwood; soil clay loam. Brick house on corner; tavern stand; good stable and barn combined. Within three miles of Strathroy; would make two 100 acre farms. the main road equally dividing it. Price, \$6,000; terms easy; adjoins the above lot.

131-131, Township of Caradoc.—230 acres, 130 acres improved and free of stumps. Timber—beech, maple and elm. A good sugar bush, about 300 trees. Small

situate on the river Thames. Price, \$8,000; terms easy.

132-214, Township of Lobo.—50 acres, all improved, and in good state of cultivation. Small orchard; loamy soil. Comfortable frame house, about 8 rooms; wood shed, barn and stable; good cellar and stone milkhouse. Close to railway station. Churches and school. All plowing done, and five acres of fall wheat in. Price, \$2,700.

144-226, Township of Westminster.—135 acres, 100 acres clear, balance heavy timber, beech and maple. Good frame buildings in good repair: honse, barn, driving shed, &c. Good orchard. Soil clay loam. Churches, school and post office convenient. On good gravel road. London 10 miles; St. Thomas 6 miles. A very capital farm. Price, \$3,000.

145-227, Township of Caradoc.—50 acres, 25 acres improved. Timber, beech and maple. Soil, sandy loam. A good frame house worth \$700. Two miles from Strathroy. Price, \$1,600.

126-208, Township of Caradoc.—200 acres, 40 improved, 70 acres heavy timber, all hard wood sandy loam; well supplied with water; small or Frame house. One mile from Strathroy. Price terms very easy.

# NORFOLK.

2-16, Township of Woodhouse – proved; balance heavily timbered, pine. Abundance of water; ne

prevec; balance heavily timbered, oak, chestan pine. Abundance of water; never-failing a Large orchard grafted fruit Large, comfortable house, in good order; outbuildings, barns, &c., sive and good. Board fence on the outside; fences rail. Sandy loam. Four miles from 8 county town. Price, \$3,600; terms easy.

5-25, Township of Walsingham.—200 acres, 24 Hardwood and pine. Light loam. Well Churches and schools within 1½ miles. Price, 1 terms easy.

16-102, Township of Charlotteville.—30 acres, proved. Good orchard; spring creek; light Frame house. School near. Nine miles from 8 county town. Price, \$3,000.

47-162, Township of Charlotteville.—100 acrimproved. Oak, beech, maple and pine. Mixe Good house, log barn and cellar; orchard. Chand schools within 1½ miles. Price, \$1,600.

50-75, Township of Walsingham.—200 acres; mostly gone. Dry, good land; light loam.
\$1,200; terms easy.

123-205, Township of Windham.—100 acres, proved. Soil sandy loam; two good wells; smi chard; well fenced. Well finished log house; 44x56; new shed, 24x94. Stone cellar. Church school I mile. Woodstock and Lake Erie B crosses the farm; Station on the next lot. miles to stations on the Canada Southern a Lines. Price, \$3,000, part on time.

124-206, Township of Windham.—50 acres, 8 improved. Timber.—Beech and maple. Soil well fenced; small orchard. Good frame house 30x50; shed 20x50; stone cellar. Close to chand school on next lot. Two miles to Windham.—33 acre tavern stand. Soil sandy loam; well fenced; orchard. Situate on Woodstock Road. house and barn. Railway Station on the sar Price, \$1,200.

# OXFORD.

13-50, Township of Dereham —116 acres, improved. Beech, maple and elm. Clay los fenced. New frame house; log barn. \$50 terms easy.

17-65, Township of South Norwich.—100 s clear. Beech, birch, maple, some pine, cedar; fine orchard grafted fruit. Mixed soil. large house with cellar; barn, drive house at (good.) Churches and schools within 2 miles. 83,000; terms casy.

22-122, Township of North Oxford.—25 acr improved. Clay and gravelly loam; creek. G cheese factory; well fenced. Two miles from soll. Price, \$1,000.

24-123, Township of North Oxford.—20 ac improved. Gravelly clay loam; good erchard fruit. Comfortable frame house and frame or ings; picket fence in front. Price, \$1,500; easy.

40-156, Township of Blenheim.—200 acres, proved; hardwood; orchard. Clay leam. house, barns, stables, &c. Railway station, and schools near. Price, \$6,000.

# PERTH.

18-110, Township of Mornington.—90 acres, 5 proved, balance timbered—beech, maple and few fruit trees. Heavy clay loam. Log hous finished; good frame barn. Churches and, near. Price, \$3,250.

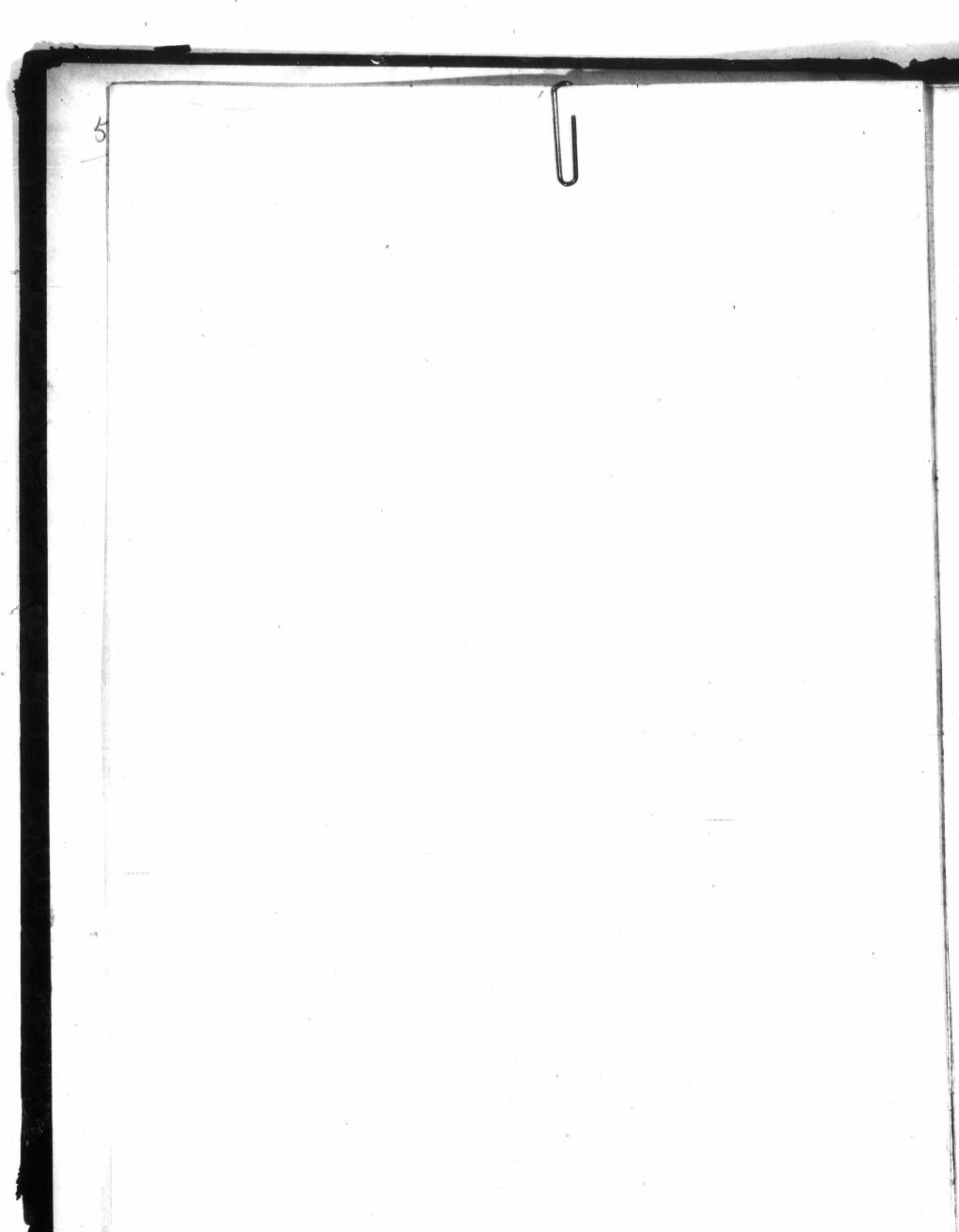
#### WATERLOO.

19-118, Township of Waterleo.—About 90 improved, balance hard wood, some cedar creek; loam. New frame house; frame be stables and cellar. Churches and schools cle mile from Berlin. Price, \$65 an acre; terms 20-119, Township of Waterloo,—About 180 to 100 improved; beech and maple; sprin loam; good orchard. Frame house and two barns. Churches and schools within two miles; Berlin 5 miles; Gait Price, \$45 an acre; terms easy,

21-120, Township of Waterloo,—140 acres, improved, balance heavily timbered, mostly beech; spring creek. A good water-power, feet head-fall; dam fit for grist-mill. 11 st house; also, log house and barn; good loam; and schools within two miles; railway stamiles; Berlin 6 miles; Galt 8 miles. Price terms easy. terms easy.

Dec, 1874

# RFOLK.



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